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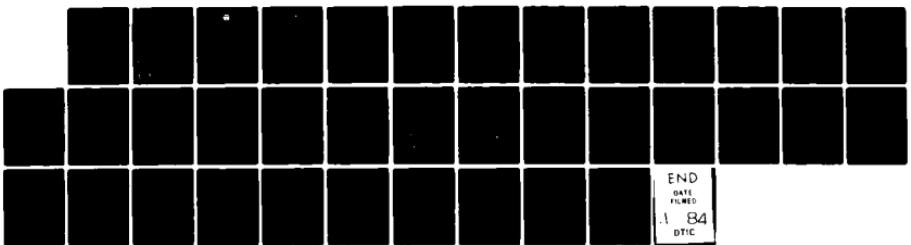
SHIPBOARD MEDICAL BACKPACK: ENGINEERING DRAWINGS(U)  
NAVAL OCEAN SYSTEMS CENTER SAN DIEGO CA R W KATAOKA  
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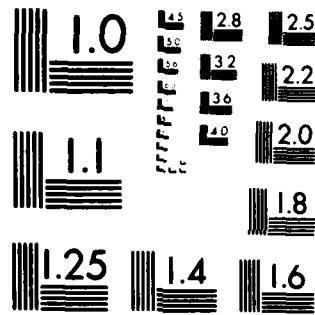
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## Technical Document 603

# SHIPBOARD MEDICAL BACKPACK: ENGINEERING DRAWINGS

R. W. Kataoka

June 1983

Prepared for  
Naval Medical Research and Development Command  
(Code 45)  
Bethesda, MD, 20014

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NAVAL OCEAN SYSTEMS CENTER  
San Diego, California 92152

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NAVAL OCEAN SYSTEMS CENTER, SAN DIEGO, CA 92152

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A N A C T I V I T Y O F T H E N A V A L M A T E R I A L C O M M A N D

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Commander

**HL BLOOD**

Technical Director

**ADMINISTRATIVE INFORMATION**

This report is one in a series on the Shipboard Medical Backpack sponsored by the Naval Medical Research and Development Command (Code 45) under program element 64771N, subproject M0933-PN (NOSC work unit FA40). Principal investigator for this project is R.W. Kataoka of the Naval Ocean Systems Center (NOSC), Bioengineering Branch (Code 5143), under the direction of Dr. W.T. Rasmussen, Head, Code 5143.

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| 20. ABSTRACT (Continue on reverse side if necessary and identify by block number)<br><br><b>Engineering drawings for the Shipboard Medical Backpack are presented.</b> |   |  |

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## INTRODUCTION

The mission of the shipboard medical backpack is to permit corpsmen to carry medical equipment and supplies to an injury site aboard ship while keeping both hands free to negotiate ladders and passageways.

The medical backpack unit is a combination of the new softpack design and the standard military All-Purpose Lightweight Carrying Equipment (ALICE) frame. The softpack is compatible with the ALICE frame and attaches to the frame in the same manner as existing Marine Corps softpacks. The shipboard-model backpack incorporates design features that are necessary for emergency treatment in the shipboard environment and that are not found in traditional backpacks. These features include: quick access to the contents, compactness, functional carrying capacity, and emergency quick release.

The medical backpack is 24 by 12 by 6 inches. It has two pockets on the interior of the front panel, a small pocket for a rope on top of the pack, compression straps for securing the contents, and carrying handles and interior straps for securing oxygen cylinders. The backpack will accept various combinations of standard medical equipment to be transported to a medical emergency, such as a D-size oxygen cylinder, Laerdal suction unit, Unit One medical kit, or Life Pak 5 ECG monitor/defibrillator.

The shipboard feasibility tests of the backpack were completed in FY79. Five shipboard medical departments evaluated the initial prototypes. These tests showed that the backpack improved shipboard medical care. The backpack also provided a means of transporting definitive medical equipment to the injury site with greater safety. These initial tests showed that the concept of the backpack carrying medical equipment and supplies was useful but that design changes were required to make it more functional (ref 1).

Two varieties of Advanced Development Model (ADM) backpacks were tested during FY81 to determine a functional design. The backpacks were evaluated by medical departments of eight ships. The ADM backpack, incorporating the military ALICE frame, was determined to be acceptable as a medical backpack for shipboard use (ref 2).

The preproduction-model backpacks based on the ADM backpack were evaluated by the medical departments aboard 29 ships and were found to

be acceptable as medical backpacks (ref 3). An assembly and operating instruction manual was also evaluated during the preproduction test and approved for use by the evaluators (ref 4).

This report contains the engineering drawing of the softpacks. Drawings of a pack module, oxygen cylinder carrying case, and Life Pak 5 ECG monitor/defibrillator case developed with the backpack are also included.

#### REFERENCES

1. Shipboard Medical Backpack Test and Evaluation Report, TH-1-78, RW Kataoka, NOSC TD 246, March 1979.
2. Shipboard Medical Backpack: Advanced Development Model Test and Evaluation Report, RW Kataoka, NOSC TR 663, August 1980.
3. Shipboard Medical Backpack: Preproduction Model Test and Evaluation, RW Kataoka and FR Borkat, NOSC TR 737, June 1982.
4. Shipboard Medical Backpack Assembly and Operating Instructions, RW Kataoka and FR Borkat, NOSC TM 446, June 1982.

| PARTS LIST  |                   | NAVAL OCEAN SYSTEMS CENTER<br>SAN DIEGO, CALIFORNIA 92152 |             | FSCM NO.<br><b>55910</b>          |  | DRAWING NO.<br><b>PL 0106716</b>  |  | REV LTR<br><b>A</b>                                       |  |  |  |
|-------------|-------------------|---|-------------|-----------------------------------|--|---|--|---|--|--|--|
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| ITEM<br>NO. | QUANTITY REQUIRED | FSCM<br>NO.   | PART NUMBER | DESCRIPTION                       |  | NATL / MANUFACTURER   |  |   |  |  |  |
| 1           | 1                 |   | -101        | BODY                              |  | MAKE FROM<br>P/N CORDURA 11 02, RUST<br>FSCH NO. ---<br>HOME AND BAINBRIDGE<br>816 PRODUCTION BEACH<br>NEWPORT BEACH CA 92663 | * MAKE FROM P/N 010011<br>FSCH NO. 18121             | STANDARD CORSA 2129 SEAWAN AVE<br>EL MONTE, CA 91733      |  |  |  |
| 2           | 1                 |   | -102        | SIDE, LEFT                        |  |   |  |   |  |  |  |
| 3           | 1                 |   | -103        | SIDE, RIGHT                       |  |   |  |   |  |  |  |
| 4           | 1                 |   | -104        | FLAP, BACK                        |  |   |  |   |  |  |  |
| 5           | 1                 |   | -105        | POCKET, TOP                       |  |   |  |   |  |  |  |
| 6           | 1                 |   | -106        | ENVELOPE, FRAME, INSIDE           |  | MAKE FROM P/N 010011<br>FSCH NO. 18121  | STANDARD CORSA 2129 SEAWAN AVE<br>EL MONTE, CA 91733 | ** MAKE FROM P/N 010011<br>FSCH NO. 18121                 |  |  |  |
| 7           | 1                 |   | -107        | ENVELOPE, FRAME, OUTSIDE          |  |   |  |   |  |  |  |
| 8           | 1                 |   | -108        | FLAP                              |  |   |  |   |  |  |  |
| 9           | 1                 |   | -109        | POCKET, INSIDE, UPPER             |  |   |  |   |  |  |  |
| 10          | 1                 |   | -110        | POCKET, INSIDE, LOWER             |  |   |  |   |  |  |  |
| 11          | 1                 |   | -111        | FLAP INNER                        |  | MAKE FROM P/N 010011<br>FSCH NO. 18121  | STANDARD CORSA 2129 SEAWAN AVE<br>EL MONTE, CA 91733 | ** MAKE FROM P/N 010011<br>FSCH NO. 18121                 |  |  |  |
| 12          | 1                 |   | -112        | FOAM 4" X 13" LG 9/16 THK EVAZOTE |  |   |  |   |  |  |  |
| 13          | AR                |   |             | THREAD DACRON POLYESTER BROWN     |  |   |  |   |  |  |  |
| 14          | 1                 |   | -113        | HOOKS VELCRO 1.0 X 1.75           |  |   |  |   |  |  |  |
| 15          |                   |   |             | HOOKS VELCRO 1.0 X 6.0            |  |   |  |   |  |  |  |
| 16          | 2                 |   | -115        | HOOKS VELCRO 1.0 X 7.0            |  | MAKE FROM<br>P/N 100-080-330-0199-AA<br>FSCM NO. 11153  | STANDARD CORSA 2129 SEAWAN AVE<br>EL MONTE, CA 91733 | ** MAKE FROM<br>P/N 100-001-330-0199-AA<br>FSCM NO. 11153 |  |  |  |
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| 18          | 4                 |   | -117        | HOOKS VELCRO 2.0 X 6.0            |  |   |  |   |  |  |  |
| 19          | 2                 |   | -118        | HOOKS VELCRO 2.0 X 7.0            |  |   |  |   |  |  |  |
| 20          | 1                 |   | -119        | HOOKS VELCRO 2.0 X 10.0           |  |   |  |   |  |  |  |
| 21          |                   |   |             | LOOPS VELCRO 1.0 X 2.0            |  | MAKE FROM<br>P/N 100-080-330-0199-AA<br>FSCM NO. 11153  | STANDARD CORSA 2129 SEAWAN AVE<br>EL MONTE, CA 91733 | ** MAKE FROM<br>P/N 100-001-330-0199-AA<br>FSCM NO. 11153 |  |  |  |
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| 24          | 4                 |   | -122        | LOOPS VELCRO 2.0 X 12.0           |  |   |  |   |  |  |  |
| 25          | 1                 |   | -123        | LOOPS VELCRO 2.0 X 9.25           |  |   |  |   |  |  |  |
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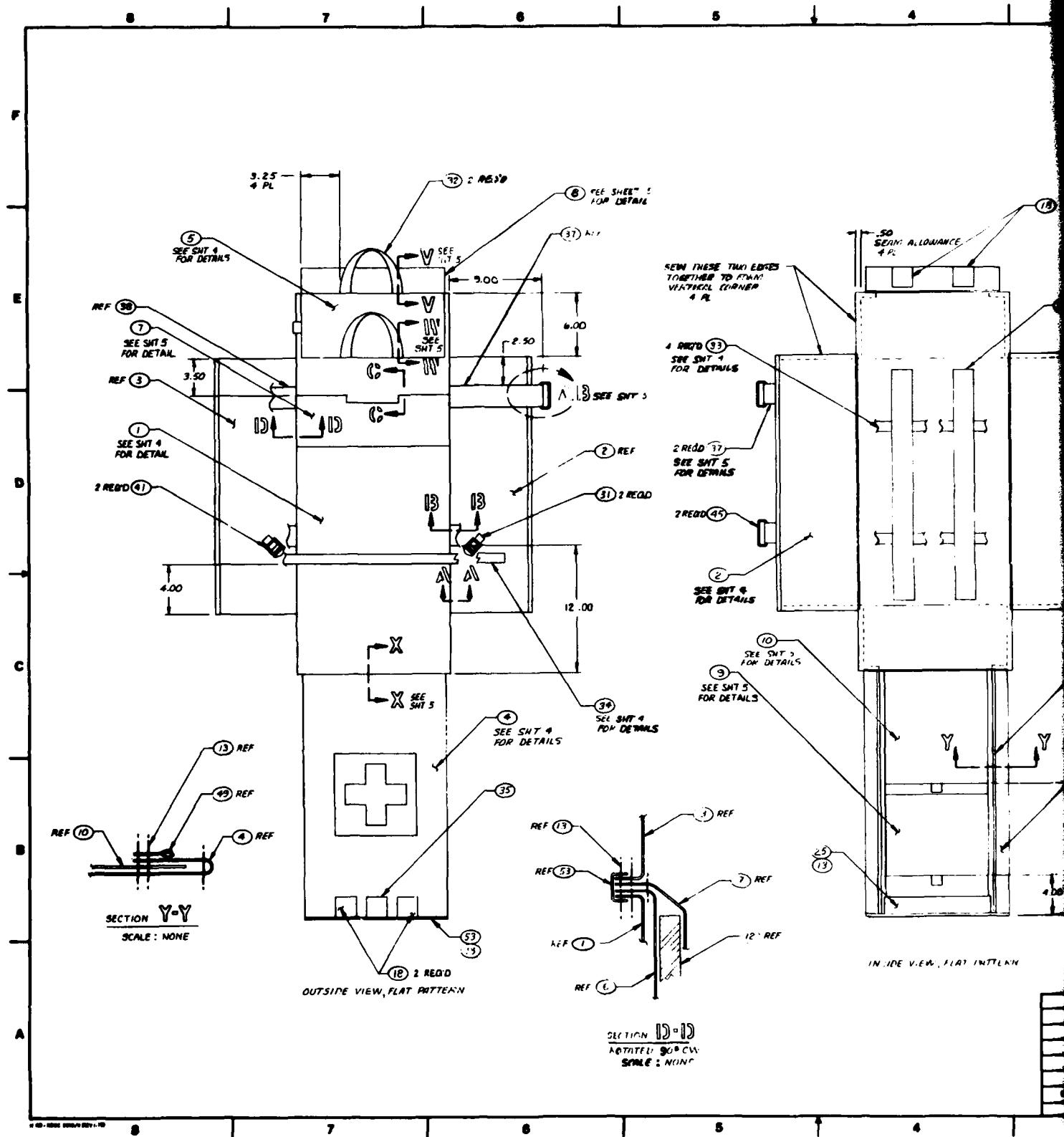
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|                    | 35       | 1                 |          | -132              | WEB 2.0 X 4.0                             | MADE FROM<br>MURDOCK WEBBING,<br>27 FOUNDRY ST.<br>CENTRAL FALLS, RI. 02863<br>FSCM NO. 83219<br>P/N 10642 |       |
|                    | 36       |                   |          | -134              | 2.0 X 10.50                               | C0,  |       |
|                    | 37       | 2                 |          | -135              | WEB 2.0 X 23.50                           | UNITED TEXTILE & SUPPLY<br>1641 N ALLESANDRO ST.<br>LOS ANGELES, CA 90026                                  |       |
|                    | 38       | 2                 |          |                   |   | YKK ZIPPERS,<br>2821 S OLIVE,<br>LOS ANGELES CA 90007  |       |
|                    | 39       |                   |          |                   |   | ZIPPER #10 CF CHAIN(COIL BLACK) COLOR 580<br>.75 WIDE X 25 LONG  |       |
|                    | 40       |                   |          |                   |   | ZIPPER #10 CF SLIDE DFL (NONLOCKING) COLOR<br>580(BLACK)   |       |
|                    | 41       | 2                 |          | 3739              | BUCKLE, TABLER UNITEX LOWER PACK SECURING | TAPE, BLACK, 1.0 NYLON MIL-T-5038, T-111   |       |
|                    | 42       |                   |          |                   |   | LOOP, 2.00 UNITEX, COMPRESSION STRAP   |       |
|                    | 43       |                   |          |                   |   | * WILSHIRE FOAM  |       |
|                    | 44       |                   |          |                   |   | #10 CF CHAIN   |       |
|                    | 45       | 2                 |          | 699               |   | #10 CF SLIDE   |       |
|                    | 46       |                   |          |                   |   | #10 CF SLIDE   |       |
|                    | 47       |                   |          |                   |   | #10 CF SLIDE   |       |
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|                    | 52       |                   |          |                   |   | #10 CF SLIDE   |       |
|                    | 53       | AR                |          |                   |   | #10 CF SLIDE   |       |

\* WILSHIRE FOAM  
1240 E 230 TH ST  
CARSON CA 90745

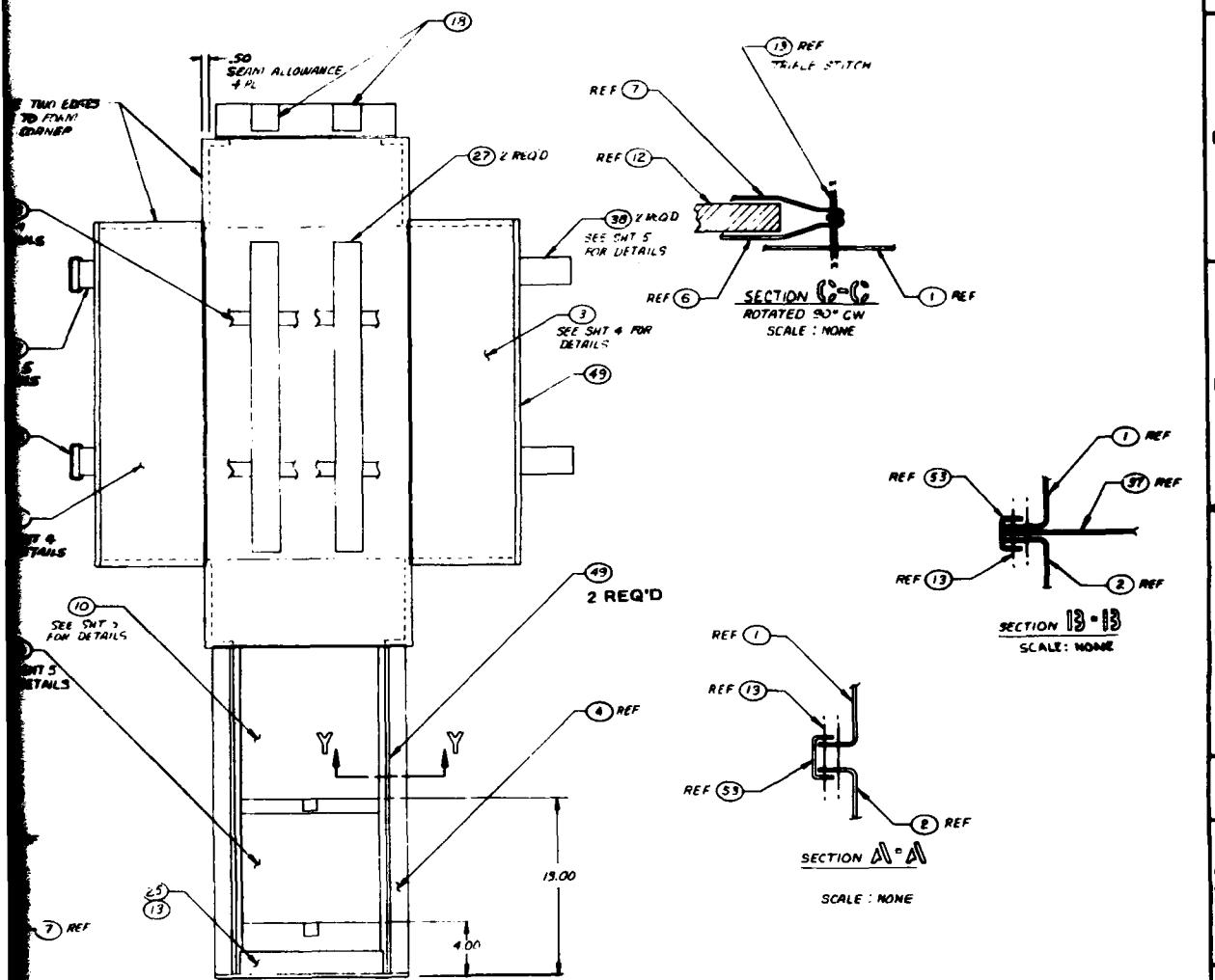
VELCRO FASTENING SYSTEMS  
MANCHESTER N.H.

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| A         | DELETED ITEMS 36, 43, 47. ITEM 45 WAS<br>4 REQ'D.    | 10/83     | ..... |     |             |
| B         | ITEM 49 WAS 1 REQ'D<br>ADDED 25" LONG TO DESCRIPTION |           |       |     |             |

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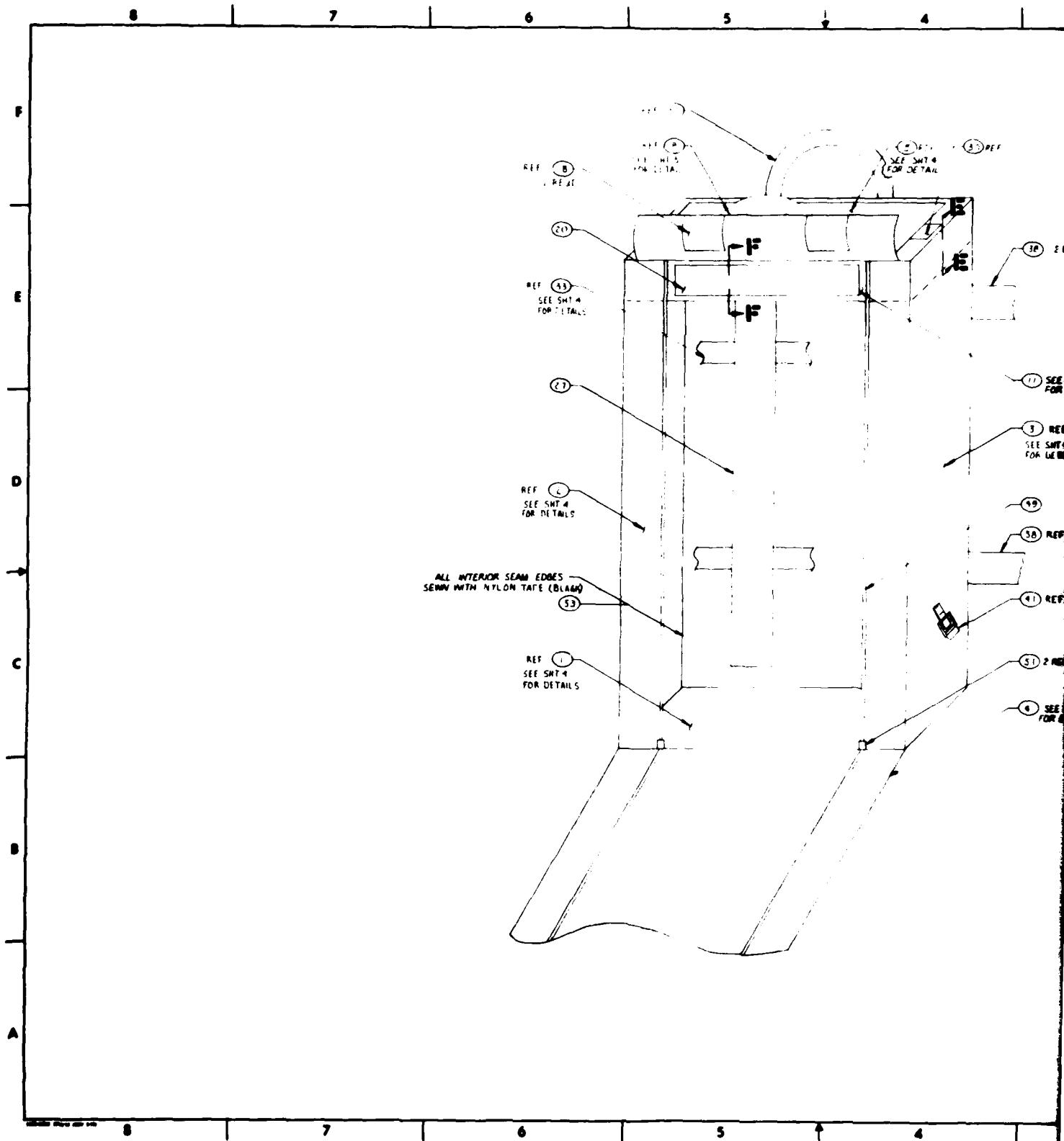


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| 414  | 1   | 415  | 1   | 416  | 1   | 417  | 1   | 418  | 1   | 419  | 1   | 420  | 1   |
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| 456  | 1   | 457  | 1   | 458  | 1   | 459  | 1   | 460  | 1   | 461  | 1   | 462  | 1   |
| 463  | 1   | 464  | 1   | 465  | 1   | 466  | 1   | 467  | 1   | 468  | 1   | 469  | 1   |
| 470  | 1   | 471  | 1   | 472  | 1   | 473  | 1   | 474  | 1   | 475  | 1   | 476  | 1   |
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| 484  | 1   | 485  | 1   | 486  | 1   | 487  | 1   | 488  | 1   | 489  | 1   | 490  | 1   |
| 491  | 1   | 492  | 1   | 493  | 1   | 494  | 1   | 495  | 1   | 496  | 1   | 497  | 1   |
| 498  | 1   | 499  | 1   | 500  | 1   | 501  | 1   | 502  | 1   | 503  | 1   | 504  | 1   |
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| 519  | 1   | 520  | 1   | 521  | 1   | 522  | 1   | 523  | 1   | 524  | 1   | 525  | 1   |
| 526  | 1   | 527  | 1   | 528  | 1   | 529  | 1   | 530  | 1   | 531  | 1   | 532  | 1   |
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| 582  | 1   | 583  | 1   | 584  | 1   | 585  | 1   | 586  | 1   | 587  | 1   | 588  | 1   |
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| 610  | 1   | 611  | 1   | 612  | 1   | 613  | 1   | 614  | 1   | 615  | 1   | 616  | 1   |
| 617  | 1   | 618  | 1   | 619  | 1   | 620  | 1   | 621  | 1   | 622  | 1   | 623  | 1   |
| 624  | 1   | 625  | 1   | 626  | 1   | 627  | 1   | 628  | 1   | 629  | 1   | 630  | 1   |
| 631  | 1   | 632  | 1   | 633  | 1   | 634  | 1   | 635  | 1   | 636  | 1   | 637  | 1   |
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| 652  | 1   | 653  | 1   | 654  | 1   | 655  | 1   | 656  | 1   | 657  | 1   | 658  | 1   |
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| 673  | 1   | 674  | 1   | 675  | 1   | 676  | 1   | 677  | 1   | 678  | 1   | 679  | 1   |
| 680  | 1   | 681  | 1   | 682  | 1   | 683  | 1   | 684  | 1   | 685  | 1   | 686  | 1   |
| 687  | 1   | 688  | 1   | 689  | 1   | 690  | 1   | 691  | 1   | 692  | 1   | 693  | 1   |
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| 708  | 1   | 709  | 1   | 710  | 1   | 711  | 1   | 712  | 1   | 713  | 1   | 714  | 1   |
| 715  | 1   | 716  | 1   | 717  | 1   | 718  | 1   | 719  | 1   | 720  | 1   | 721  | 1   |
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| 729  | 1   | 730  | 1   | 731  | 1   | 732  | 1   | 733  | 1   | 734  | 1   | 735  | 1   |
| 736  | 1   | 737  | 1   | 738  | 1   | 739  | 1   | 740  | 1   | 741  | 1   | 742  | 1   |
| 743  | 1   | 744  | 1   | 745  | 1   | 746  | 1   | 747  | 1   | 748  | 1   | 749  | 1   |
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| 806  | 1   | 807  | 1   | 808  | 1   | 809  | 1   | 810  | 1   | 811  | 1   | 812  | 1   |
| 813  | 1   | 814  | 1   | 815  | 1   | 816  | 1   | 817  | 1   | 818  | 1   | 819  | 1   |
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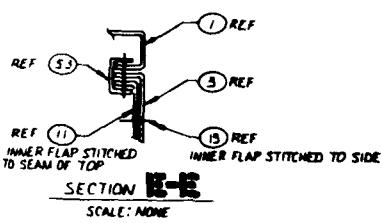
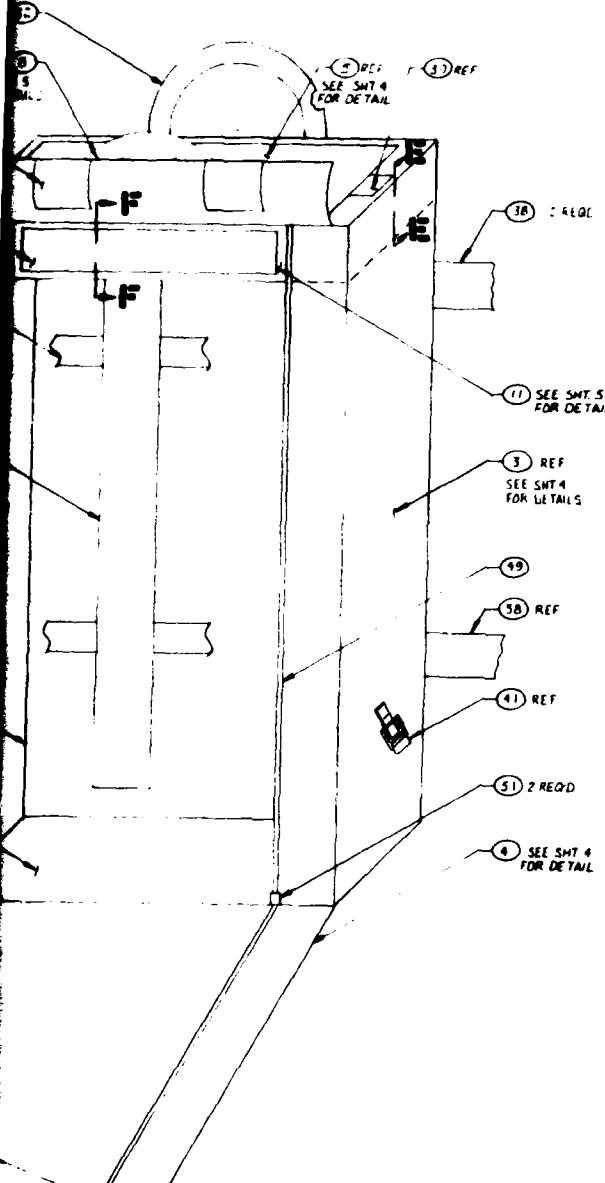
IN THE VIEW FLAT (HILLTOP)

SEE SEPARATE PARTS LIST PL 0106716



5 4 3 2 1

|             |   |          |   |      |          |
|-------------|---|----------|---|------|----------|
| DRAWING NO. |   | REV. NO. |   | DATE | APPROVAL |
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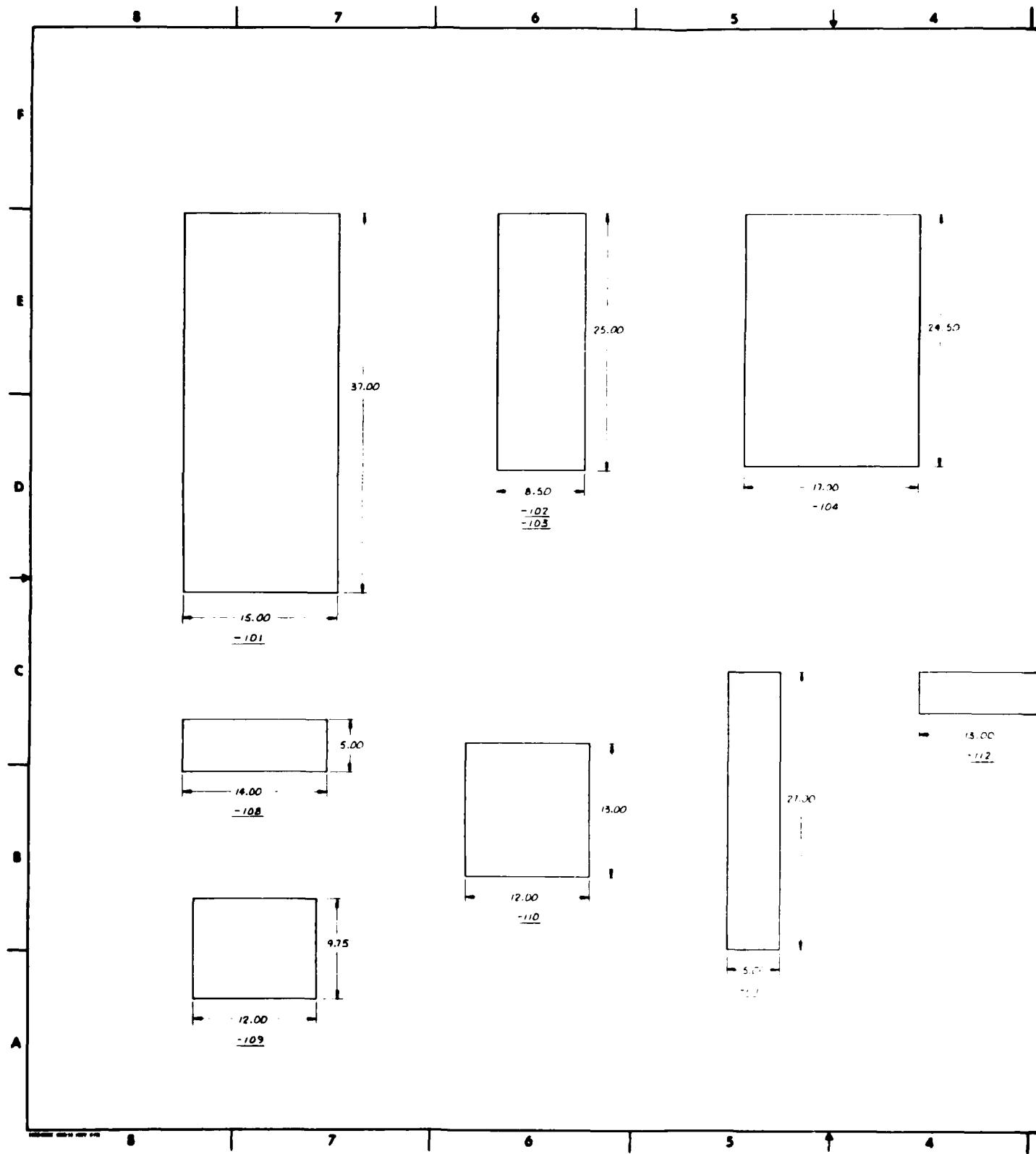


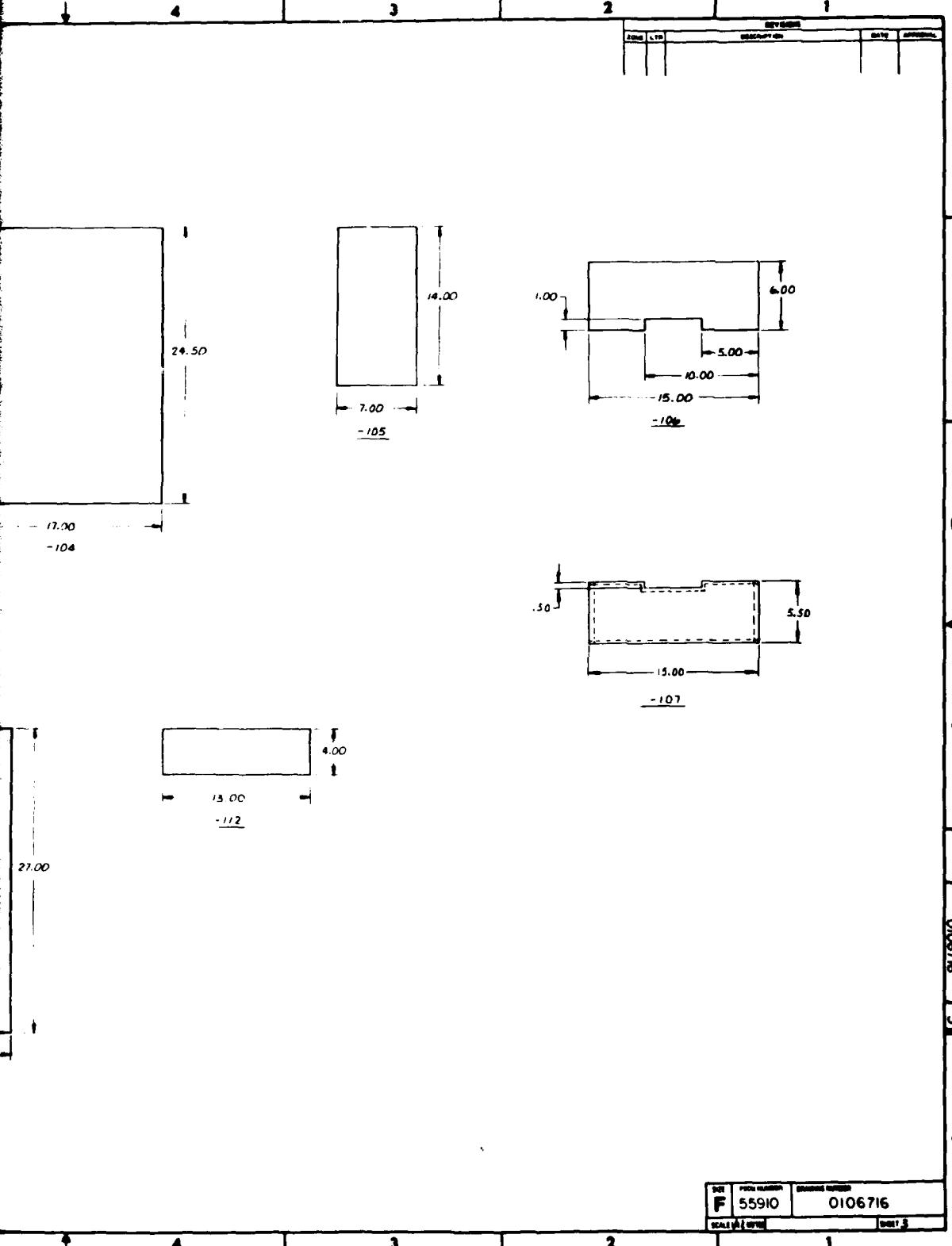
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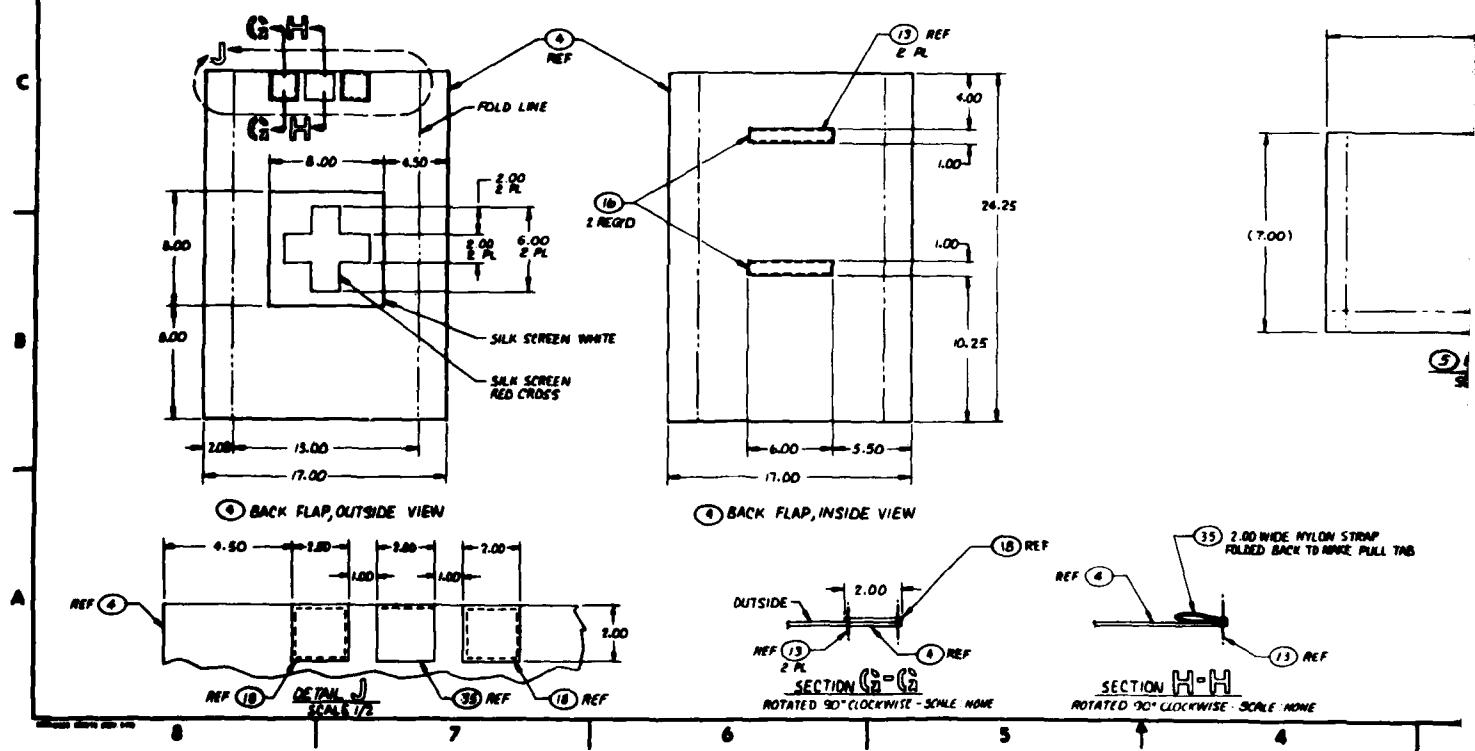
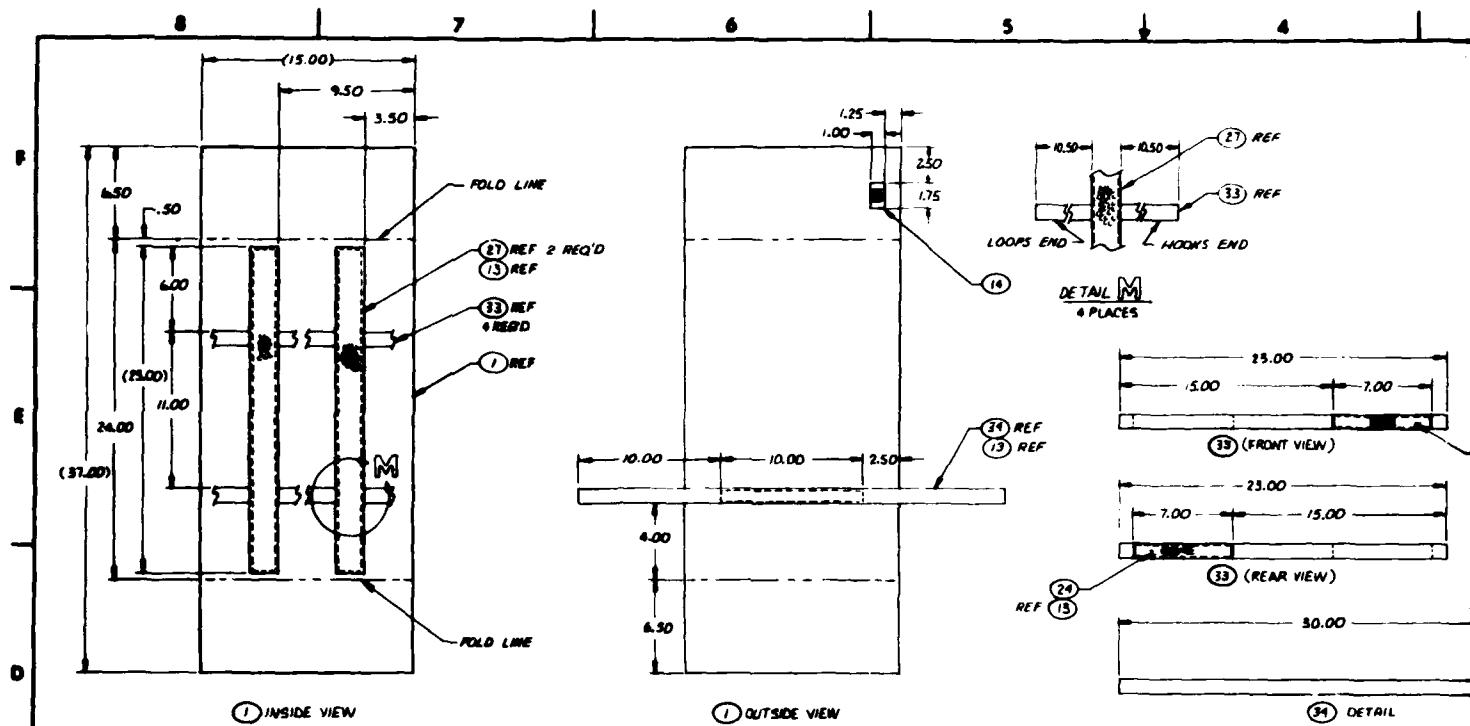
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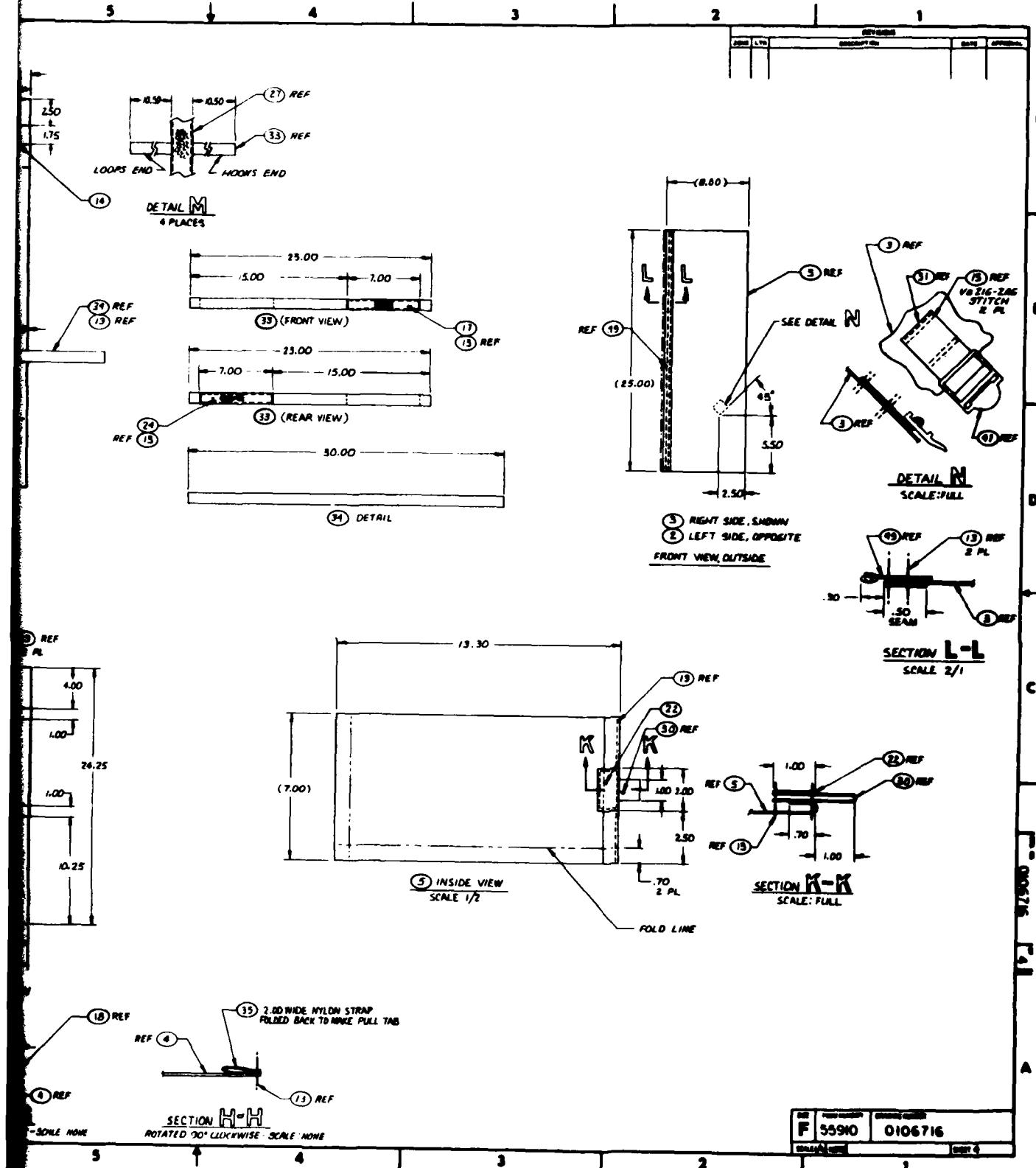
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| SCALE NONE | UNIT 2  |

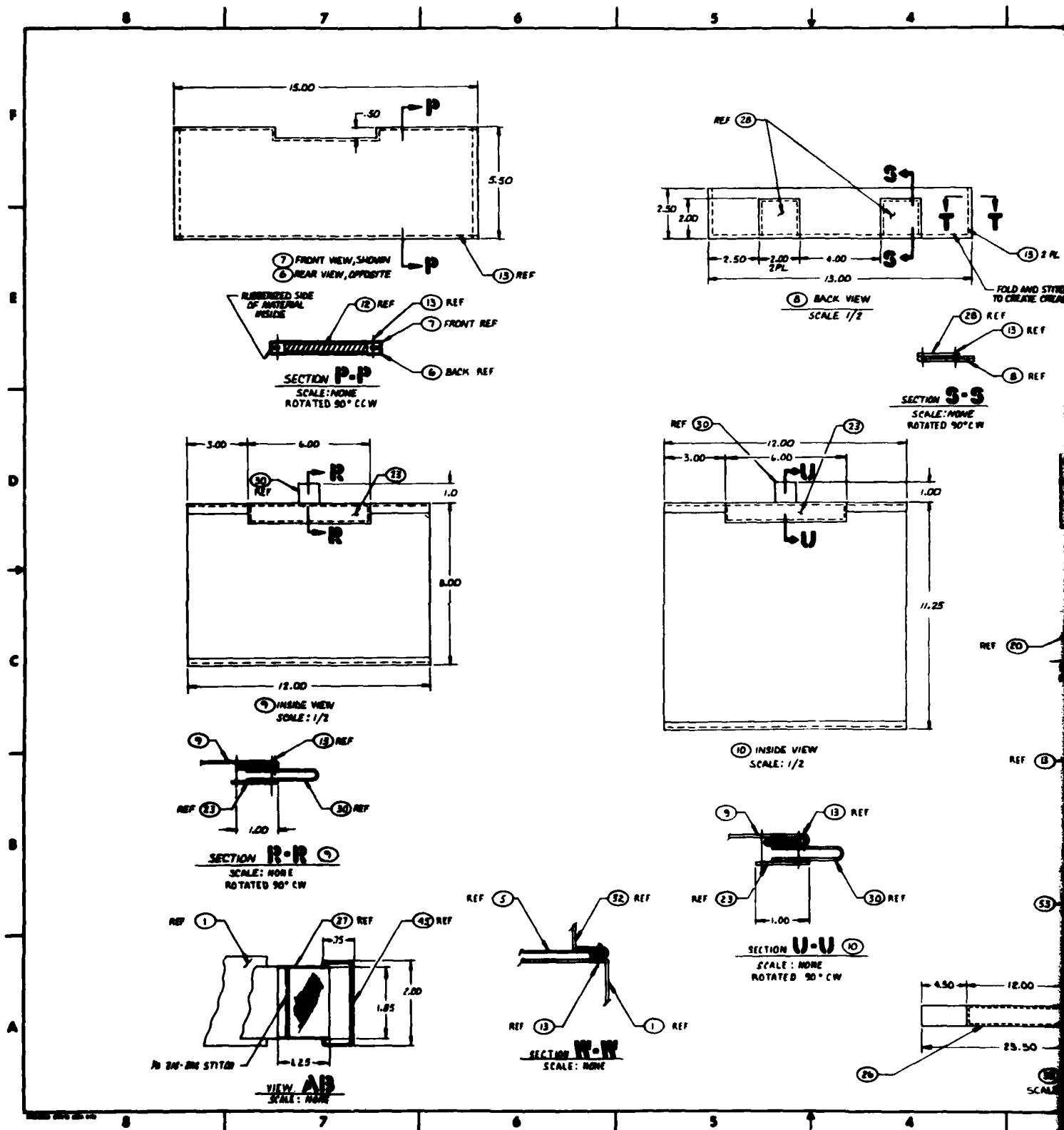
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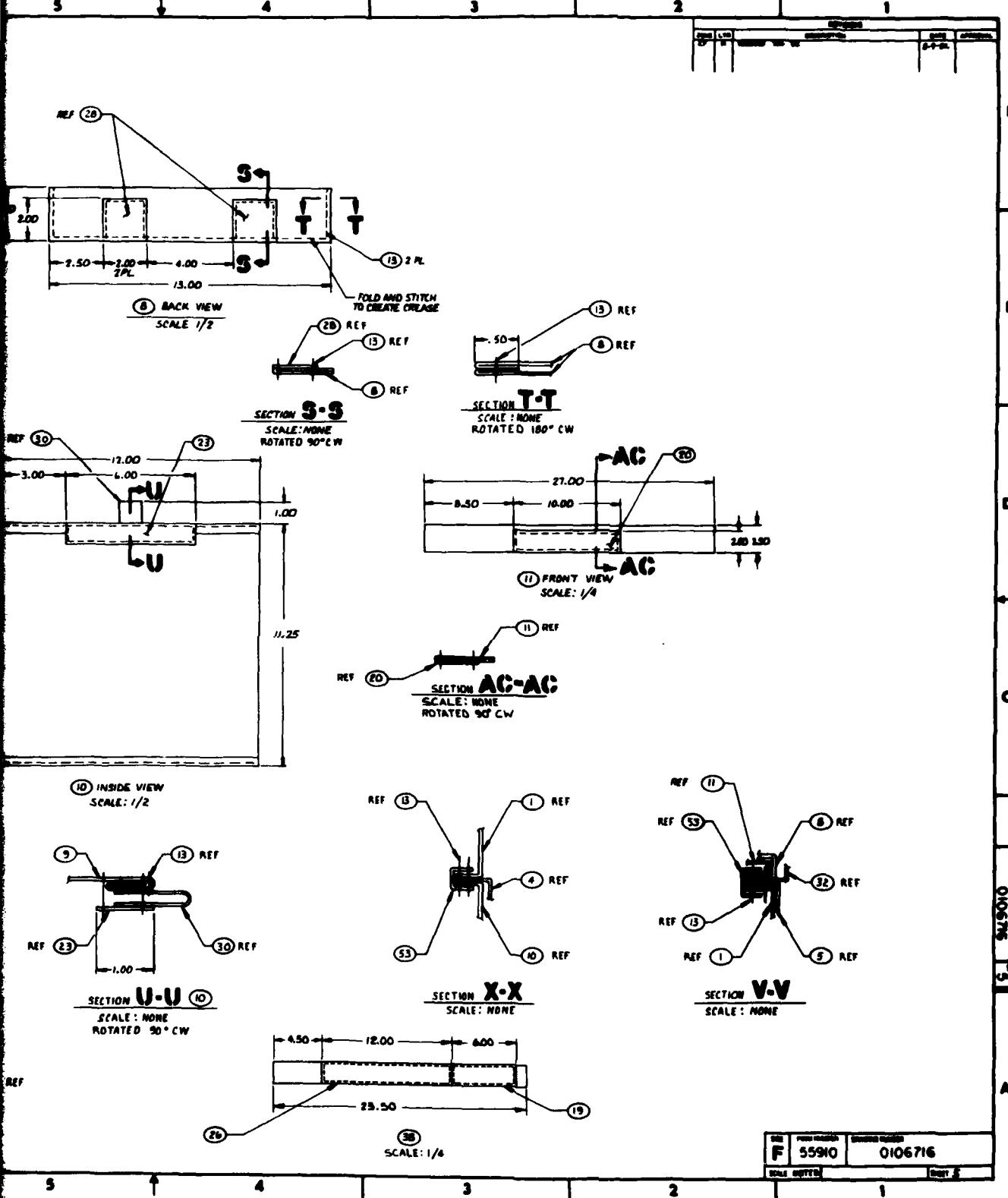












8 7 6 5 4

D

NOTES:

1) MANUFACTURER:  
MK ZIPPIERS  
2621 OLIVE AVE  
LOS ANGELES, CA 90007

2) ZIPPER:  
P/N: CORONA 11.02, MAST  
PSN: 11153  
NAME AND ADDRESS  
115 PINEAPPLE BEACH  
REPORT BEACH, CA 92663

3) ZIPPER:  
P/N: 200-000-330-0100-AA  
PSN: 11153  
VELCRO FASTENING SYSTEMS  
MINNEAPOLIS, MN

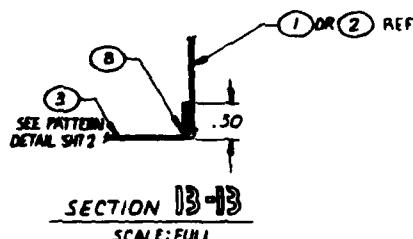
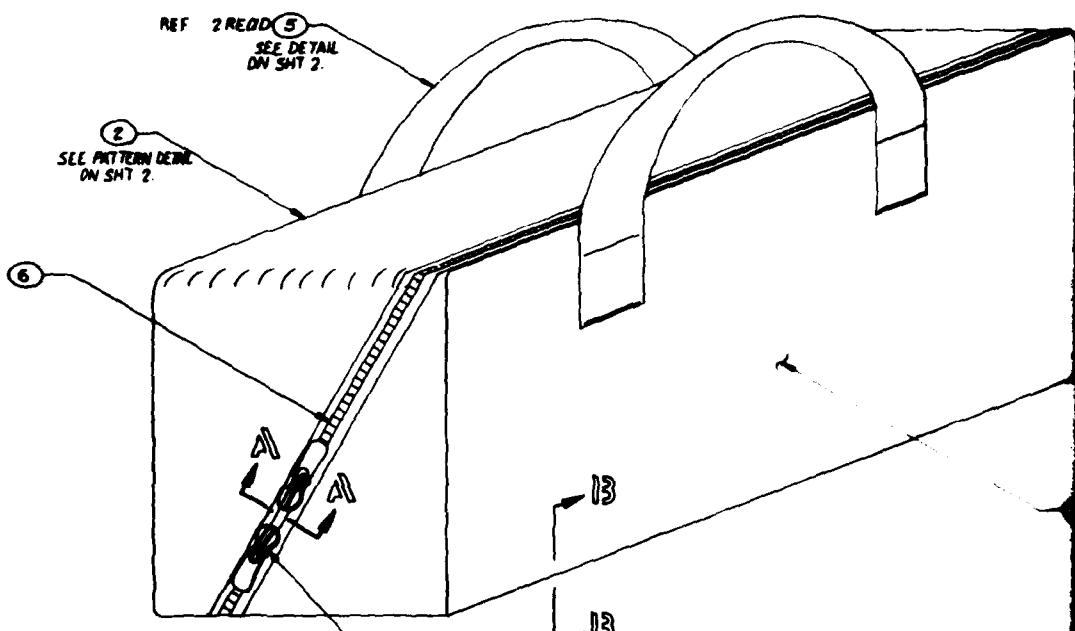
4) ZIPPER:  
P/N: 200  
PSN: 11153  
JOHN HORNADY CO.  
100 W MAPLE  
MINNEAPOLIS, MN 55401

5) STANDARD CORSA  
2129 SEANNA AVE  
EL PINTO, CA 91733

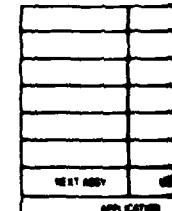
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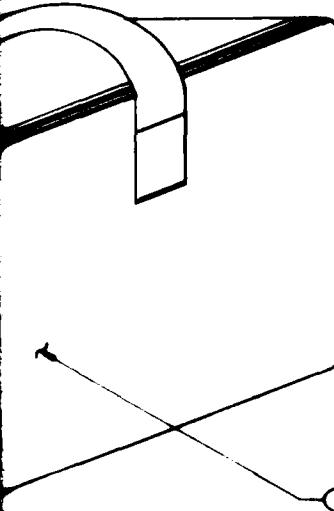
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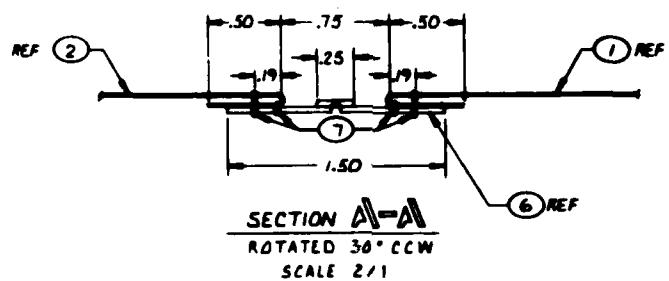
8 7 6 5 4



| 0106717   | D1  | 1           |      |          |
|-----------|-----|-------------|------|----------|
| REVISIONS |     |             |      |          |
| ZONE      | LTR | DESCRIPTION | DATE | APPROVAL |
|           |     |             |      |          |



① SEE PATTERN DETAIL  
ON SHT 2.

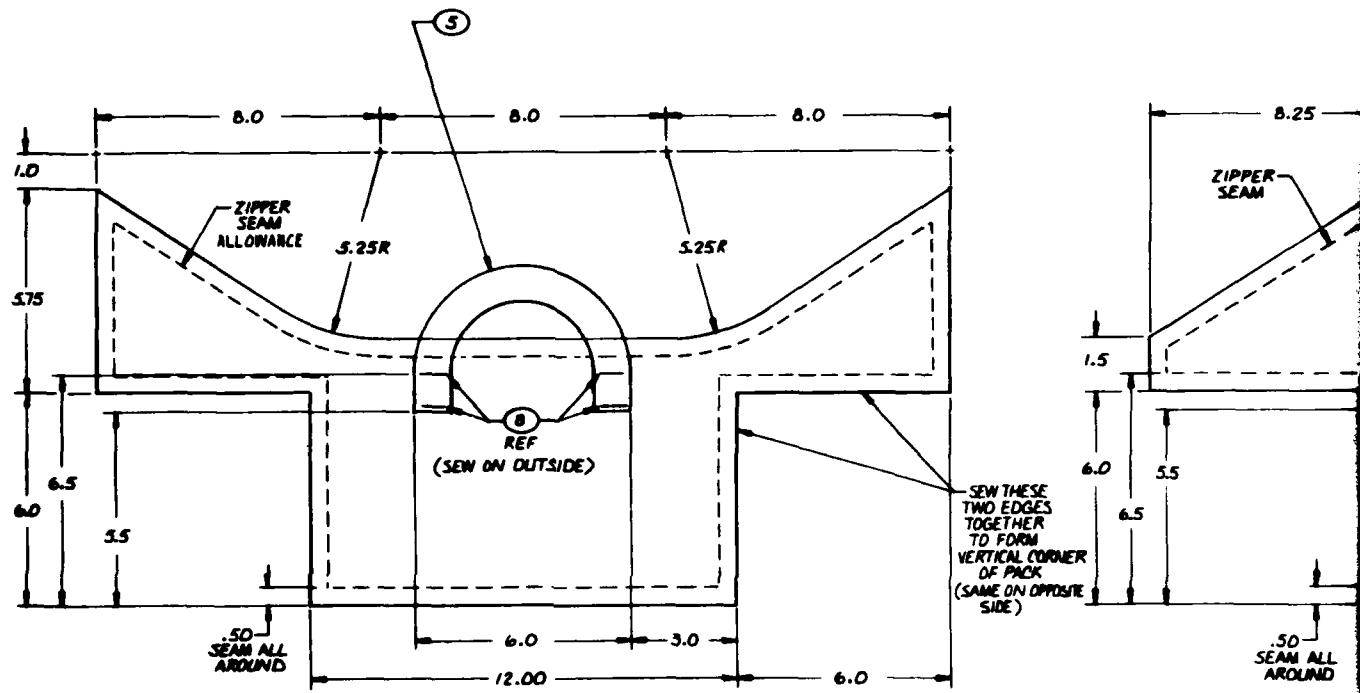


| AN  | 3             | V-92                          | THREAD: NYLON/POLYESTER, BROWN   | 8                        |
|-----|---------------|-------------------------------|--|--------------------------|
| 2   | ⚠             | #7 CF SLIDE                   | ZIPPER. #7 CF SLIDE DPL (NONLOCKING).<br>COLOR 500 (BLACK).                        | 7                        |
| 1   | ⚠             | #7 CF CHAIN                   | ZIPPER. #7 CF CHAIN. COLOR 500 (BLACK). 5/8 WIDE<br>NYLON COIL WITH POLYESTER TAPE | 6                        |
| 2   |               | -105                          | HANDLE   | 10.0" X 1.0" NYLON STRAP |
| 1   |               | -104                          | HOOKS, VELCRO  | 2.0" X 8.0" VELCRO       |
| 1   |               | -103                          | BOTTOM   |                          |
| 1   |               | -102                          | SIDE 2   |                          |
| 1   |               | -101                          | SIDE 1   |                          |
| -/- | PRINTED<br>ON | PRINT OR<br>IDENTIFIED NUMBER | DESCRIPTION OR SPECIFICATIONS  | GENERAL/SPEC/TEST DATA   |
| QTY | 000           |                               |  | 000                      |

(2)

8 1 7 6 5 4

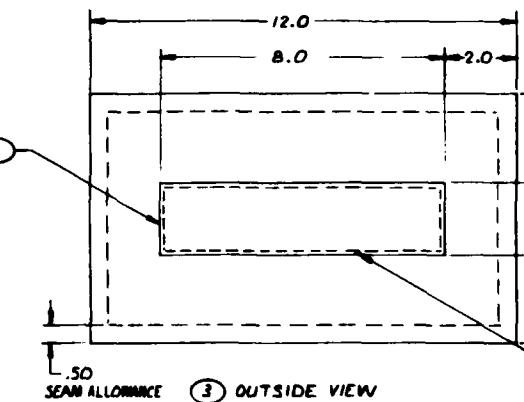
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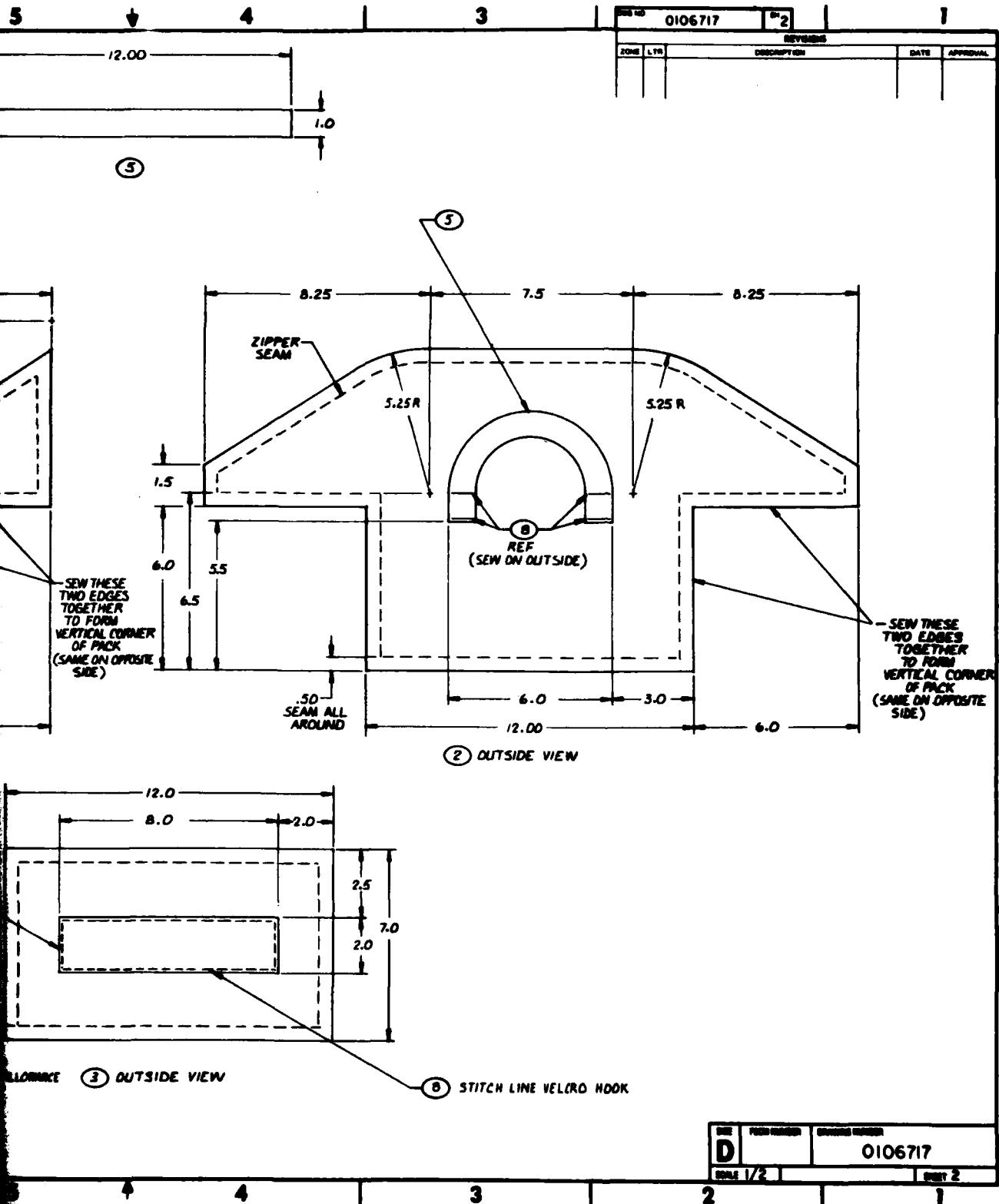
① OUTSIDE VIEW

B

A



8 1 7 6 5 4



8 7 6 5 4

## NOTES

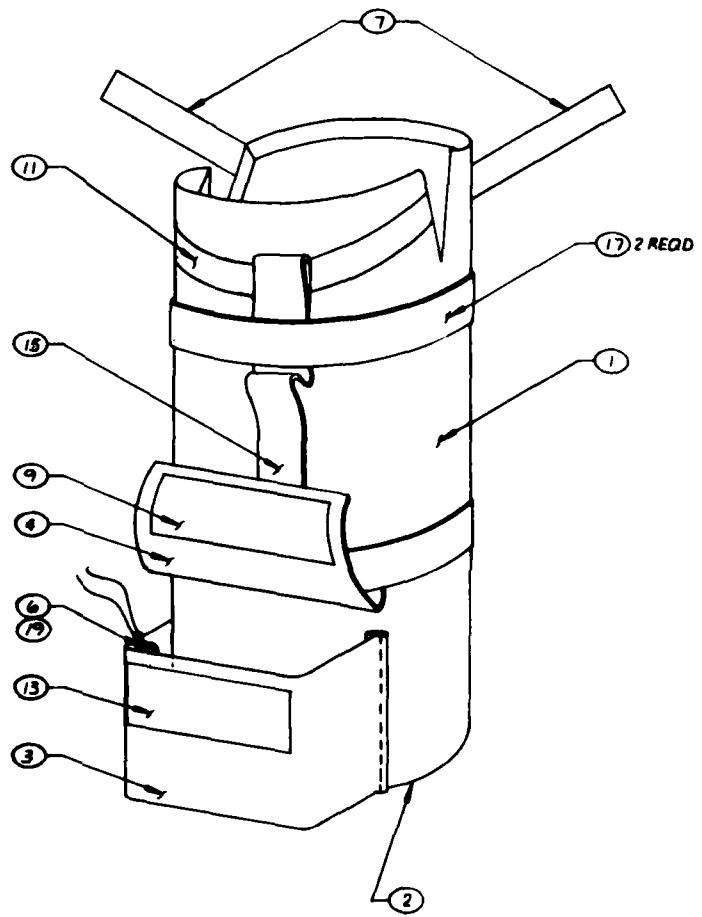
1. ALL SEAMS ARE .50
2. ALL STITCHING ZIG-ZAG
3. FSCM 11153, PN 200-001-330-0199AA
4. FSCM 11153, PN 100-001-330-0199AA
5. FSCM 11153, PN 200-080-330-0199AA
6. FSCM 11153, PN 100-080-330-0199AA
7. JOHN HOWARD CO  
407 W. MAPLE  
MONROVIA, CA 91016
8. STANDARD CODSA  
2129 SEAMAN AVE  
EL MONTE, CA 91733
9. MS 20230-A10

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第七章

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2 3 4 5 6 7 8 9 10

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3

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|            |     |                                    |           |
|------------|-----|------------------------------------|-----------|
| DRAWING NO |     | 0106718                            | REV       |
| REVISIONS  |     |                                    |           |
| ZONE       | LET | DESCRIPTION                        | DATE      |
| 08         | A   | ADDED FSCM AND<br>PN TO PARTS LIST | 10/83 RWK |

D

(17) 2 REQD

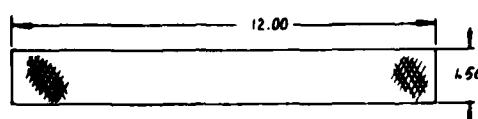
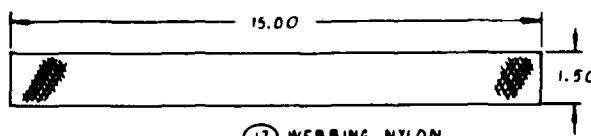
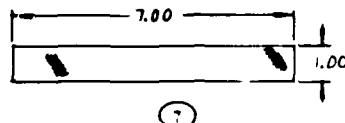
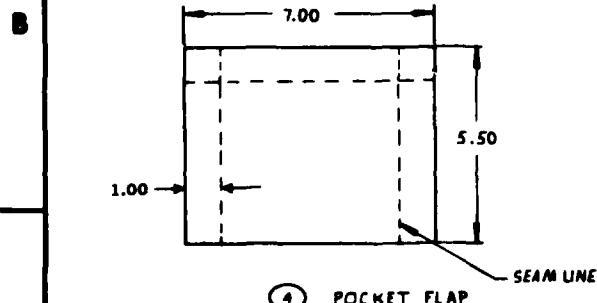
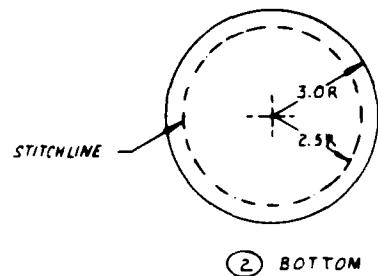
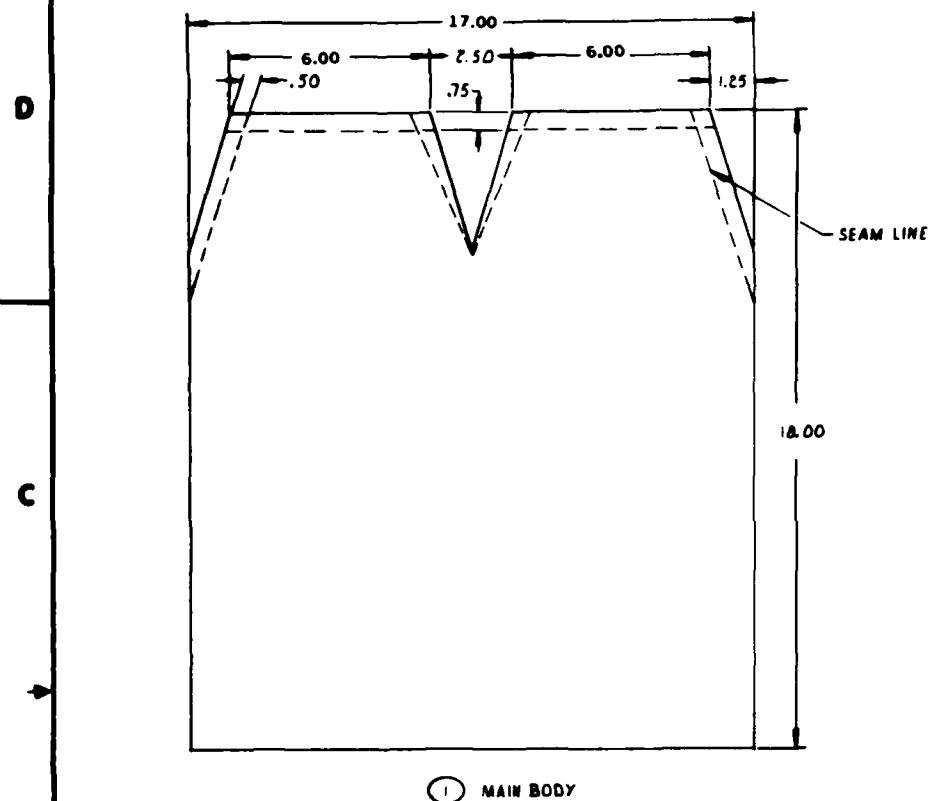
C

|     |            |   |            |
|-----|------------|---|------------|
| 1   |            | CORD, NYLON .125 DM X 26.0 LG WHITE         | 19         |
| 2   | SEE NOTE 7 | WEBBING, NYLON 1.5 X 46.0 LG                | 18         |
| 1   | SEE NOTE 7 | WEBBING, NYLON 1.5 X 46.0 LG                | 17         |
| 1   | SEE NOTE 3 | LOOPS, VELCRO 2.0 X 5.0 LG                  | 16         |
| 1   | SEE NOTE 4 | LOOPS VELCRO 1.0 X 6.0 LG                   | 15         |
| 1   | SEE NOTE 5 | HOOKS, VELCRO 2.0 X 5.0 LG                  | 14         |
| 2   | SEE NOTE 6 | HOOKS, VELCRO 1.0 X 7.0 LG WHITE            | 13         |
| 1   | SEE NOTE 9 | GROMMET, BRASS 1/4" HOLE                    | 12         |
| 1   | SEE NOTE 8 | THREAD POLYESTER #16, WHITE                 | 11         |
| 1   |            | POCKET FLAP 1/2 OZ FRESHRUNK 100% ARMY PACK | 10         |
| 1   |            | POCKET                                      | 9          |
| 1   |            | BOTTOM                                      | 8          |
| 1   |            | BODY 1/2 OZ FRESHRUNK 100% ARMY PACK        | 7          |
| -1  | FROM<br>NO | PART OR<br>IDENTIFYING NUMBER               | ITEM<br>NO |
| QTY | REQ        | DESCRIPTION OR Nomenclature                 | ITEM<br>NO |

PARTS LIST

|  |               |   |                                  |
|--|---------------|---|----------------------------------|
| INTERPRET DRAWINGS IN ACCORDANCE<br>WITH MIL-STD-100   |               | NAVAL OCEAN SYSTEMS CENTER<br>SAN DIEGO, CA 92132 |                                  |
| DO NOT SCALE THIS DRAWING  |               |   |                                  |
| DIMENSIONS ARE IN<br>INCHES. UNLESS OTHERWISE SPECIFIED<br>ANGLES ARE IN<br>DEGREES. ALLOW FOR<br>TELESCOPING AND<br>KX & KZ FOR<br>ANGLES &<br>FL. STEP MAX<br>SURFACE FINISHNESS |               | APPROVED  | OXYGEN CYLINDER<br>CARRYING CASE |
| NEXT ACTY  | USED ON       | APPROVED  |                                  |
| APPLICATION  | RELEASED DATE | APPROVED  |                                  |
|  |               | PREPARED CONTR SEI 10/83                          |                                  |
|  |               | PROJECT NUMBER                                    |                                  |
|  |               | ORGANIZATIONAL CODE                               |                                  |
|  |               | APPROVED FOR                                      |                                  |
|  |               | BY DIRECTOR                                       |                                  |
|  |               | SIZE  | FROM NUMBER                      |
|  |               | D   | 59900                            |
|  |               | SCALE NONE  | DRAWING NUMBER                   |
|  |               | UNIT IN   | 0106718                          |
|  |               | HEET 1  | OF 3                             |

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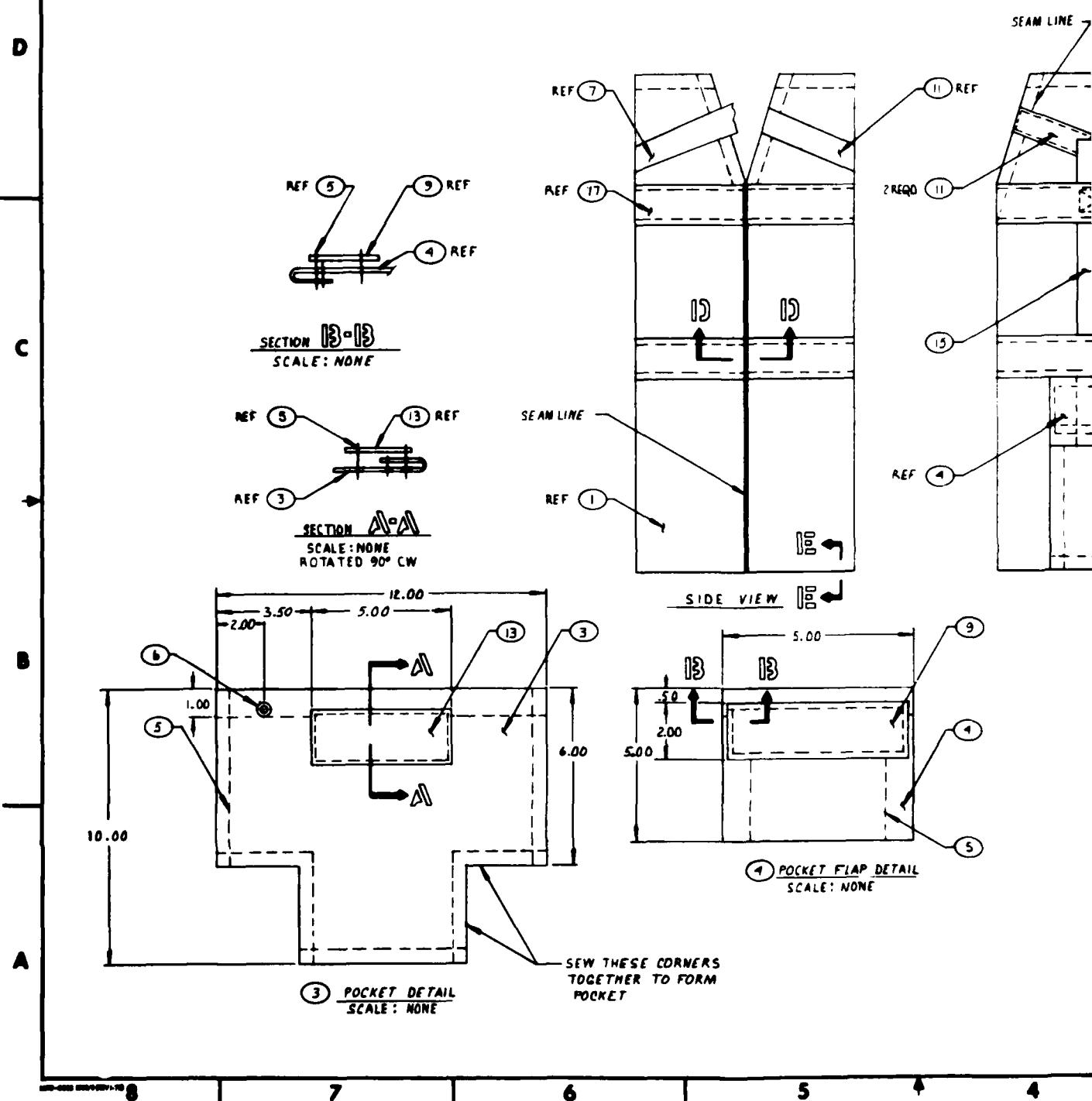
A

8 7 6 5 4

|   |      |  |        |          |                  |      |             |        |          |   |  |  |       |  |      |      |             |      |          |   |  |  |       |  |
|---|------|--|--------|----------|------------------|------|-------------|--------|----------|---|--|--|-------|--|------|------|-------------|------|----------|---|--|--|-------|--|
| 5   | 4    | 3  | 2      | 1        |                  |      |             |        |          |   |  |  |       |  |      |      |             |      |          |   |  |  |       |  |
| <table border="1"> <tr> <td colspan="2">DRAW NO. 0106718</td> <td>2</td> <td colspan="2">REV. B</td> </tr> <tr> <td colspan="5"> <table border="1"> <tr> <td>ZONE</td> <td>LINE</td> <td>DESCRIPTION</td> <td>DATE</td> <td>APPROVAL</td> </tr> <tr> <td>A</td> <td></td> <td>CHG ITEM 1 WAS 16.00<br/>TO 17.00 WAS 5.50 TO<br/>6.00; ADD ITEM 4 1.00;<br/>ADD ITEM 3. .50.</td> <td>10/83</td> <td></td> </tr> </table> </td> </tr> </table> |      |  |        |          | DRAW NO. 0106718 |      | 2           | REV. B |          | <table border="1"> <tr> <td>ZONE</td> <td>LINE</td> <td>DESCRIPTION</td> <td>DATE</td> <td>APPROVAL</td> </tr> <tr> <td>A</td> <td></td> <td>CHG ITEM 1 WAS 16.00<br/>TO 17.00 WAS 5.50 TO<br/>6.00; ADD ITEM 4 1.00;<br/>ADD ITEM 3. .50.</td> <td>10/83</td> <td></td> </tr> </table> |  |  |       |  | ZONE | LINE | DESCRIPTION | DATE | APPROVAL | A |  | CHG ITEM 1 WAS 16.00<br>TO 17.00 WAS 5.50 TO<br>6.00; ADD ITEM 4 1.00;<br>ADD ITEM 3. .50. | 10/83 |  |
| DRAW NO. 0106718  |      | 2  | REV. B |          |                  |      |             |        |          |   |  |  |       |  |      |      |             |      |          |   |  |  |       |  |
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| ZONE  | LINE | DESCRIPTION  | DATE   | APPROVAL |                  |      |             |        |          |   |  |  |       |  |      |      |             |      |          |   |  |  |       |  |
| A   |      | CHG ITEM 1 WAS 16.00<br>TO 17.00 WAS 5.50 TO<br>6.00; ADD ITEM 4 1.00;<br>ADD ITEM 3. .50. | 10/83  |          |                  |      |             |        |          |   |  |  |       |  |      |      |             |      |          |   |  |  |       |  |
|   |      |  |        |          |                  |      |             |        |          |   |  |  |       |  |      |      |             |      |          |   |  |  |       |  |
|   |      |  |        |          |                  |      |             |        |          |   |  |  |       |  |      |      |             |      |          |   |  |  |       |  |
|   |      |  |        |          |                  |      |             |        |          |   |  |  |       |  |      |      |             |      |          |   |  |  |       |  |
|   |      |  |        |          |                  |      |             |        |          |   |  |  |       |  |      |      |             |      |          |   |  |  |       |  |
|   |      |  |        |          |                  |      |             |        |          |   |  |  |       |  |      |      |             |      |          |   |  |  |       |  |
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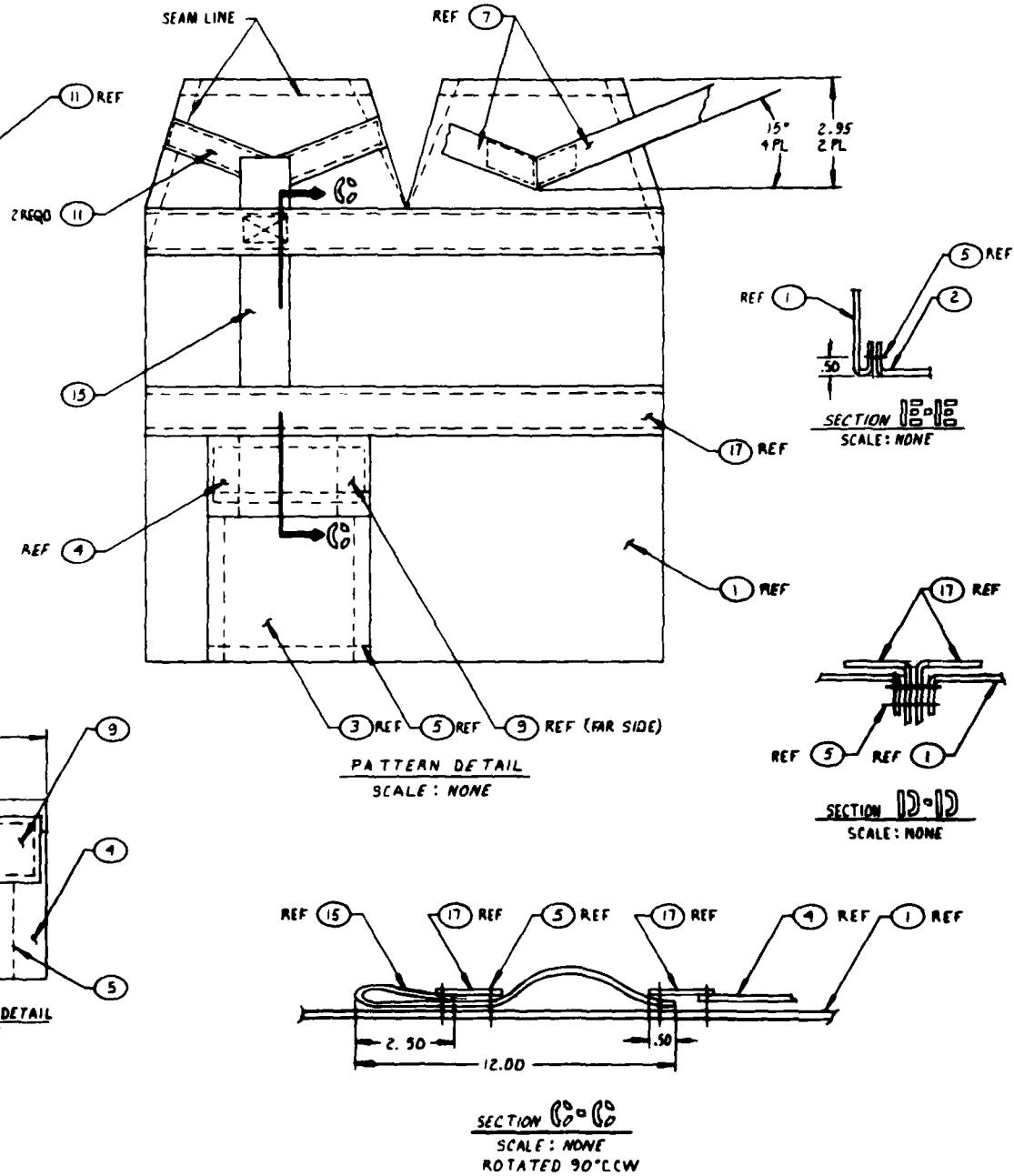
8 7 6 5 4

**NOTE:**  
1. SEAM LINES TYPICALLY .50 EXCEPT AS NOTED



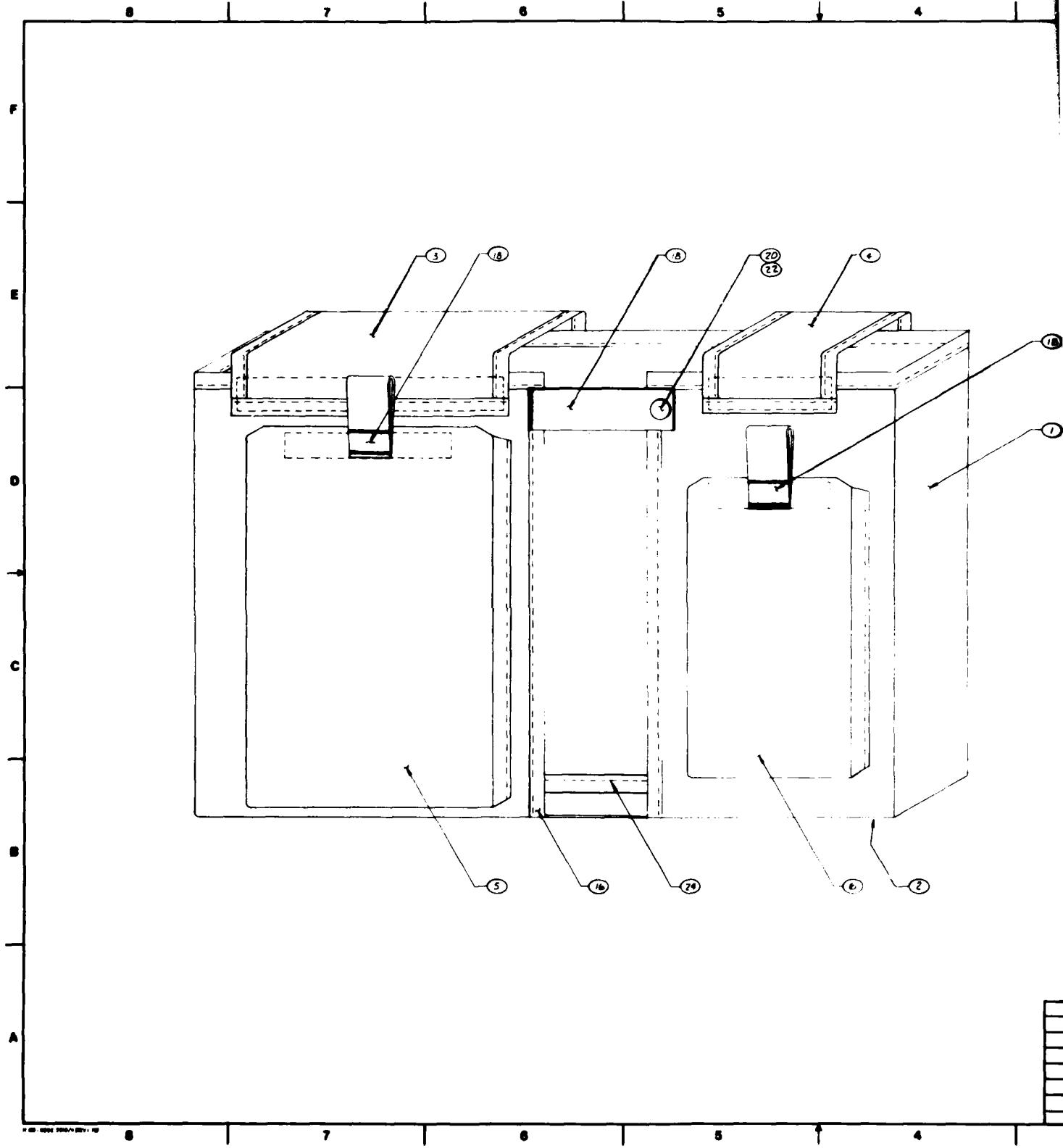
5 4 3 1

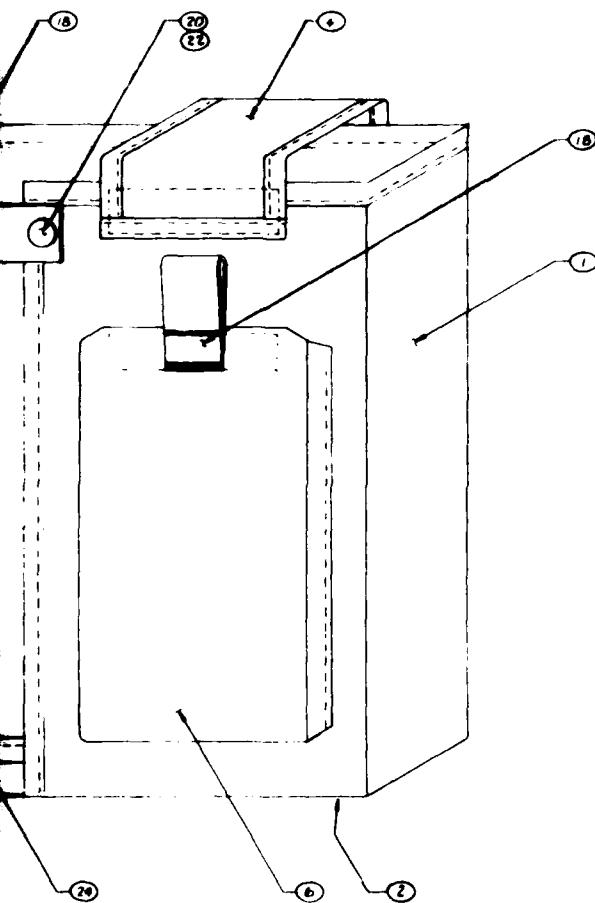
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| PROJ NO      | 0106718 | REV NO      | 3    |
| ZONE         | LTR     | DESCRIPTION | DATE |
| A ADD NOTE 1 |         | APPROVAL    |      |



|             |             |                |
|-------------|-------------|----------------|
| REF         | PROJ NUMBER | DRAWING NUMBER |
| D           | 55910       | 0106718        |
| SCALE: NONE |             | Sheet 3        |

5 4 3 2 1



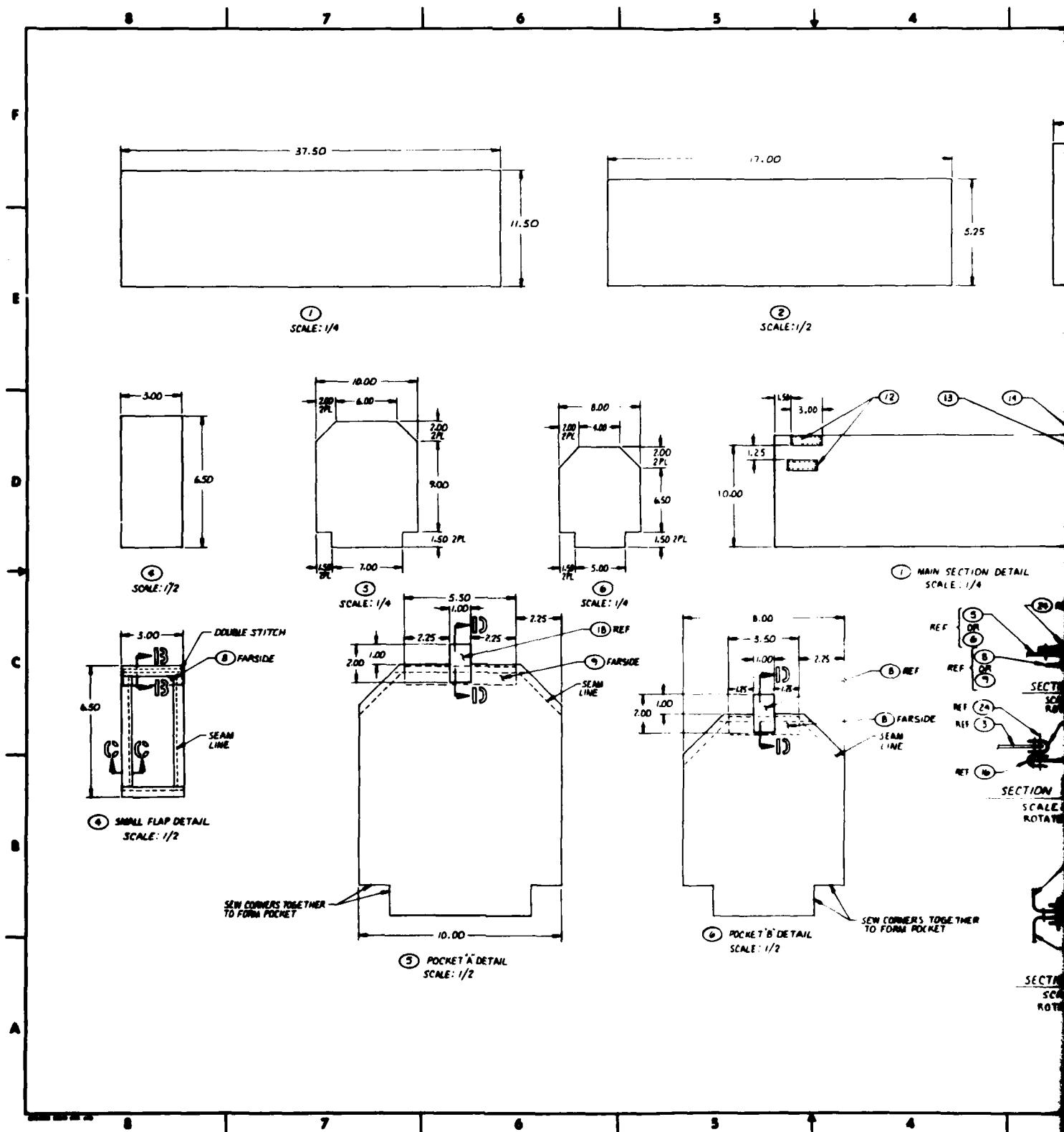


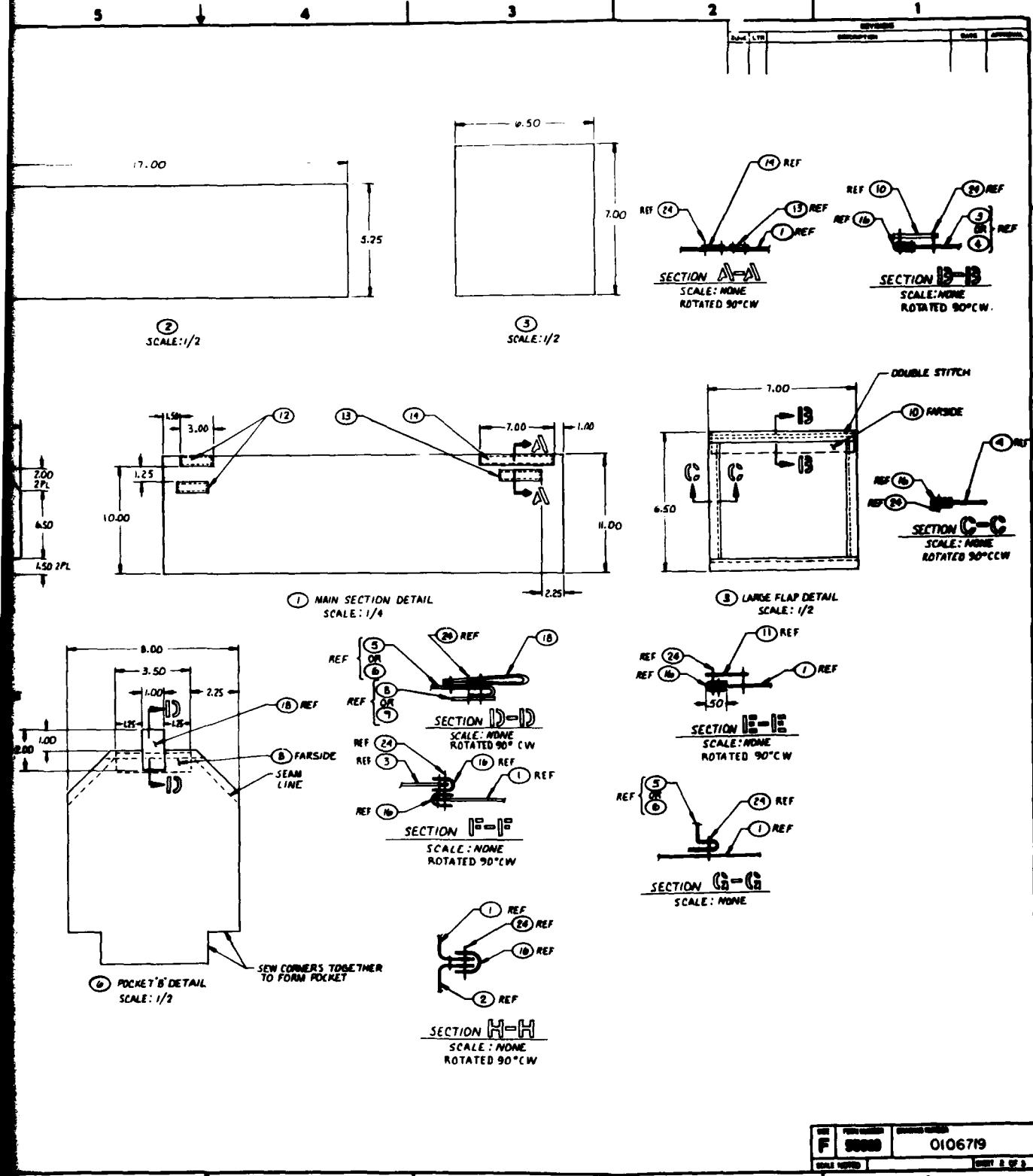
#### NOTE

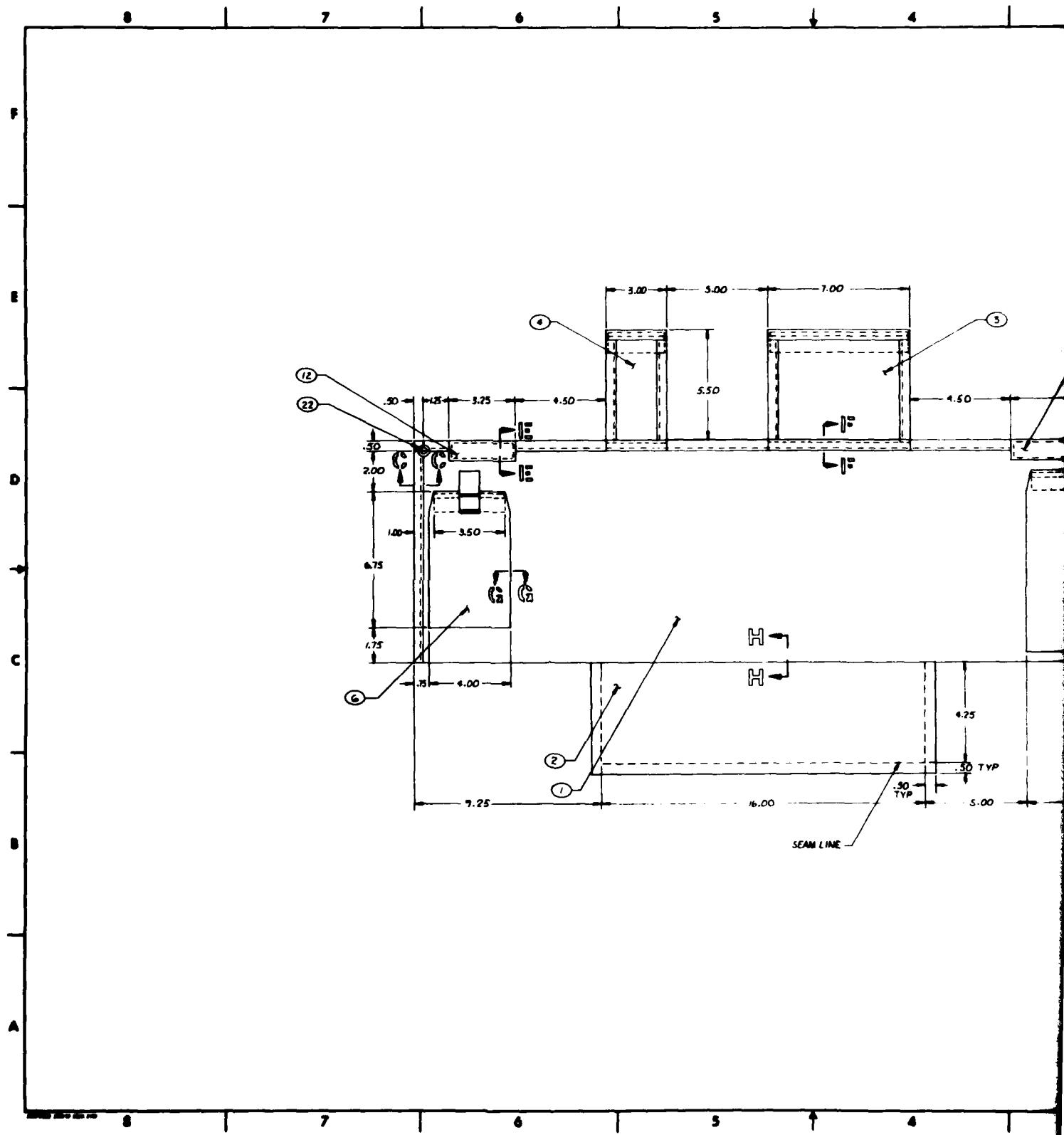
1. STANDARD CODSA  
2129 SEAMAN AVE  
EL MONTE, CA 91733
2. MS 27983-1N
3. MS 27983-2N
4. JOHN HOWARD CO.  
407 W. MAPLE  
MONROVIA, CA 91016
5. FSCM 11153, PN 100-080-330-0199AA
6. FSCM 11153, PN 100-100-330-0199AA
7. HOWE & BAINBRIDGE  
816 PRODUCTION BEACH  
NEWPORT BEACH, CA 92663

|     |            |  |                          |
|-----|------------|--|--------------------------|
| 1/4 | SEE NOTE 1 | THREAD DACRON POLYESTER STANDARD CORSA THINNER, V-92 | 24                       |
| 1   | SEE NOTE 3 | SNAP RECEPTACLE, 18201                               | 23                       |
| 1   | SEE NOTE 2 | SNAP, CAP, 18100                                     | 20                       |
| 3   | SEE NOTE 4 | STRAP, NYLON, PN 258                                 | 1.0 X 4.0                |
| 1/4 | MIL-T-5038 | BINDING, NYLON                                       | 1.0 INDE                 |
|     | SEE NOTE 5 | HOOKS VELCRO   | 1.0 X 7.00 BLACK         |
| 1   | "          | HOOKS VELCRO   | 1.0X 4.00                |
| 2   | "          | HOOKS VELCRO   | 1.0 X 3.00               |
|     | SEE NOTE 6 | LOOPS VELCRO   | 1.0X 7.00                |
| 1   | "          | LOOPS VELCRO   | 1.0X 4.00                |
| 2   | "          | LOOPS VELCRO   | 1.0 X 3.00 BLACK         |
|     | SEE NOTE 7 | POCKET "B"   | CORDURA 110Z NYL         |
| 1   | "          | POCKET "A"   |                          |
| 1   | "          | FLAP, SMALL  |                          |
| 1   | "          | FLAP, LARGE  |                          |
| 1   | "          | BOTTOM   |                          |
| 1   | "          | MAIN SECTION   | CORDURA 110Z NYL         |
| 1/4 | PN 48      | PART OR IDENTIFY NUMBER                              | REMARKS, SPEC, REFERENCE |
| GT  | 48         |  |                          |

|             |  |   |  |                      |  |   |  |
|-------------|--|---|--|----------------------|--|---|--|
|             |  | INTERIM DRAWINGS IN ACCORDANCE<br>WITH MIL-STD-100  |  | PARTS LIST           |  | NAVAL SURGEON SYSTEMS CENTER<br>SAN DIEGO, CA 92132         |  |
|             |  | DO NOT SCALE THIS DRAWING   |  |                      |  |   |  |
|             |  | SOLAR SYSTEMS SPECIFIED<br>MILITARY DRAWINGS ARE<br>MADE IN INCHES<br>DRAWINGS ARE<br>TELETYPE NUMBER<br>TELETYPE NUMBER<br>TELETYPE NUMBER |  | APPROVED             |  | LIFE PACK 5 ECG -<br>MONITOR/DEFIBRILLATOR<br>CARRYING CASE |  |
|             |  |   |  | APPROVED             |  |   |  |
|             |  |   |  | CROSSED              |  |   |  |
|             |  |   |  | REPRODUCED CONTRA    |  | 21 SEP 1980   |  |
|             |  |   |  | PROJECT NUMBER       |  |   |  |
|             |  |   |  | CONTRACT NUMBER      |  |   |  |
|             |  |   |  | SPECIFICATION NUMBER |  |   |  |
| NEXT REWD   |  | USED ON   |  | FALLS IN             |  | FACILITY NUMBER   |  |
|             |  |   |  | MILITARY             |  | 0106719   |  |
| APPLICATION |  | RELEASED BY   |  | BY DIRECTOR          |  | SCALE AND INC. UNIT SET                                     |  |
|             |  | RELEASED DRAFT  |  |                      |  | SHEET 1 OF 3  |  |

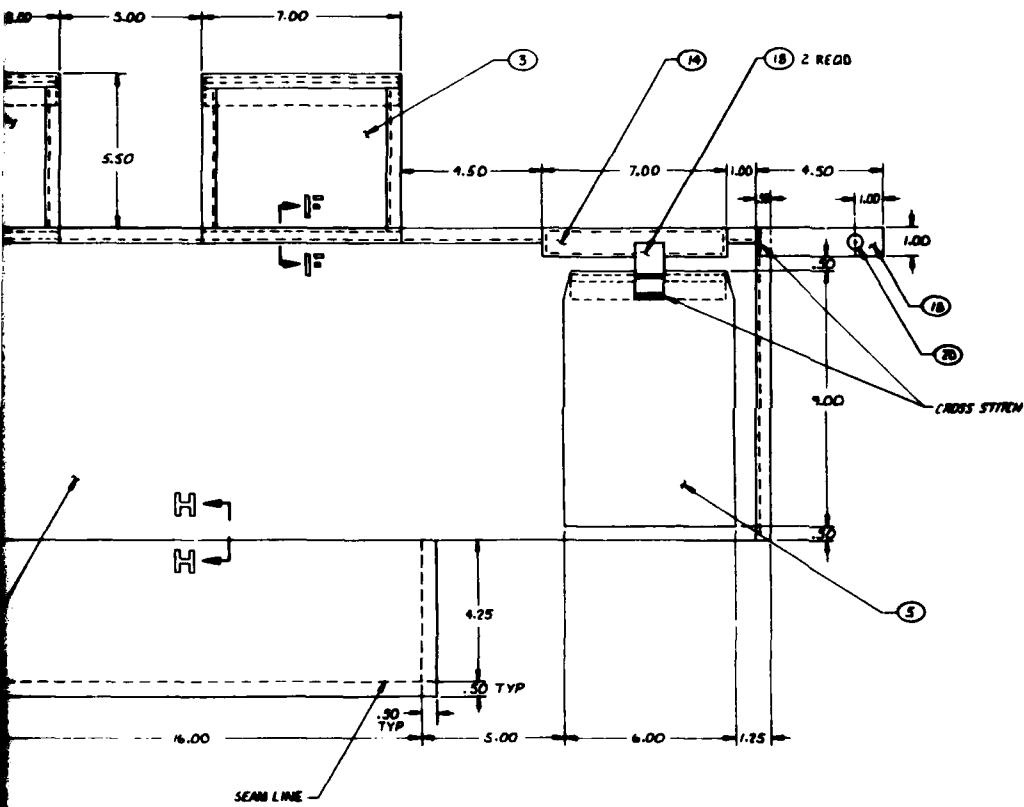






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| Date |  | LTP | Description |  | Date | Approval |
|------|--|-----|-------------|--|------|----------|
|      |  |     |             |  |      |          |



**F** 55910 0106719

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